

**Description:**

*What objectives and subskills are measured by TerraNova, Third Edition?*

**Part 4** Item Classifications by Objective and Subskill

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## Guide to Item Classification Tables

The following tables show the item classifications for the components of *TerraNova, Third Edition* Form G items and Plus Tests. Items are classified according to level, component, content area, objective, and subskill.

128		Part 4		Item Classifications by Objective and Subskill		
<b>LEVEL 12</b> ← <b>A</b>						
Note: Item numbers in boldface type have more than one part and are classified to more than one objective and/or subskill.						
<b>B</b>	<b>Reading</b>	Item Numbers				
	Objectives subskills	Complete Battery	Survey	Multiple Assessments		
<b>C</b>	<b>02 Basic Understanding</b>	←				
	sentence meaning	3, 4	3, 4	↑ <b>E</b>		
	word recognition graphics	1, 2	1, 2			
<b>D</b>	initial understanding	43 ← <b>F</b>	32	36		
	stated information	6, 15	7	7		
	stated information graphics	5				
	sequence	7, 29, 48	18, 37	18, 41		
	vocabulary	37	28	32		
	<b>03 Analyze Text</b>					
	main idea/theme	13	5	5		
	cause/effect	44	33	<b>24, 25, 37</b>		
	conclusions	16	8	8		
	story elements/character	14, 31, 46	6, 20, 35	6, 20, 39		
	story elements/setting	28	17	17		

- A** Look at the top of the table for the level of the test administered. Please refer to the table in Part 1 (page 5) that shows the correspondence between test level and grade range.
- B** Find the content area of the test administered.
- C** Find the objective(s) associated with that content area.
- D** Locate a particular subskill within that objective.
- E** Read across the column headings to locate the component administered.
- F** Look under the component and find the item number or numbers that correspond to the targeted subskill.

**LEVEL 10**

Reading Objectives subskills	Item Numbers	
	Complete Battery Part 1	Complete Battery Part 2
<b>01 Oral Comprehension</b>		
literal	4, 5, 6, 13	1, 2, 4, 5
interpretive	7, 14, 15	3
<b>02 Basic Understanding</b>		
sentence meaning		16, 17, 18, 19, 20, 21
word recognition graphics		14, 15
<b>06 Introduction to Print</b>		
environmental print	1, 2, 3	
sound/visual recognition	8, 9, 10, 11, 16, 17, 18, 19	
word analysis	12	6, 7, 8, 9, 10, 11, 12, 13

**LEVEL 10**

Mathematics	Item Numbers	
	Complete Battery Part 1	Complete Battery Part 2
<b>10 Number and Number Relations</b>		
counting	1	9
read, recognize numbers	9	
compare, order	13	12
ordinal numbers		2
money	8	
<b>11 Computation and Numerical Estimation</b>		
computation in context	2	
computation with money	4	
<b>13 Measurement</b>		
non-standard units	12	
time	10	
calendar	14	1
length, distance		10
<b>14 Geometry and Spatial Sense</b>		
plane figure	15	13
solid figure		8
congruence, similarity	7	7
symmetry		11
<b>15 Data Analysis, Statistics and Probability</b>		
read bar graph		4, 5
read table, chart, diagram	5, 6	14
interpret data display		15
<b>16 Patterns, Functions, Algebra</b>		
missing element	3	
number pattern	11	6
<b>17 Problem Solving and Reasoning</b>		
identify missing/extra information		3

## LEVEL 11

Note: Item numbers in boldface type are classified to more than one objective and/or subskill.

Reading Objectives subskills	Item Numbers	
	Complete Battery	Multiple Assessments
<b>01 Oral Comprehension</b>		
literal	2, 3, 9, 10	2, 3, 9, 10
interpretive	1, 4, 11	1, 4, 11
<b>02 Basic Understanding</b>		
sentence meaning	20, 21, 22	20, 21, 22
word recognition graphics	17, 18, 19	17, 18, 19
stated information graphics	28	31, 44
<b>03 Analyze Text</b>		
conclusions	25, 26, 36, 40	28, 29, 39, 43, <b>45</b>
story elements/plot	27	30
nonfiction elements	37	40
<b>04 Evaluate/Extend Meaning</b>		
critical assessment	39	42
predict/hypothesize	29	32
<b>05 Reading and Writing Strategies</b>		
vocabulary strategies	38	41
graphic strategies	23, 24	26, 27
writing development	32, 33, 34, 35	23, 24, 35, 36, 37, 38, <b>45</b>
<b>06 Introduction to Print</b>		
sound/visual recognition	5, 6, 7	5, 6, 7
word analysis	8, 12, 13, 14, 15, 16, 30, 31	8, 12, 13, 14, 15, 16, 25, 33, 34

**LEVEL 11**

Note: Item numbers in boldface type are classified to more than one objective and/or subskill.

Mathematics	Item Numbers		
	Objectives subskills	Complete Battery	Multiple Assessments
<b>10 Number and Number Relations</b>			
counting			<b>29</b>
compare, order	8		9
ordinal numbers	27		16
money	13		
fractional part	39		
place value	32		19
rounding, estimation	30, 34		20
odd, even numbers	35		
<b>11 Computation and Numerical Estimation</b>			
computation	1, 2, 3, 4, 23, 24, 25		1, 2, 3, 4, 5
computation in context	15, 46		26
computation with money	10, 31		
<b>12 Operation Concepts</b>			
operation sense	28, 45		17, 24, <b>32</b>
<b>13 Measurement</b>			
appropriate tool	16		
non-standard units	7		8, <b>33</b>
estimate	6		<b>31</b>
time	5, 38		13
length, distance	29		18
<b>14 Geometry and Spatial Sense</b>			
congruence, similarity	17, 37		6, 23
sort/group	18		<b>34</b>
symmetry	47		25
transformations	21		
visualization, spatial reasoning	14, 44		12
<b>15 Data Analysis, Statistics and Probability</b>			
read pictograph	41, 43		21, 22
read bar graph	11, 19		10
interpret data display	12		11, <b>28</b>
complete/construct data display			<b>30</b>
use data to solve problems	20		
compare data	42		
<b>16 Patterns, Functions, Algebra</b>			
missing element	36		
number pattern	22		7
geometric pattern	40		14
model problem situation	33		<b>27</b>
<b>17 Problem Solving and Reasoning</b>			
identify missing/extra information	26		15
solve non-routine problem			<b>28</b>
deductive/inductive reasoning	9		<b>31, 33, 34</b>
<b>18 Communication</b>			
model math situations			<b>27, 29, 30, 32</b>

## LEVEL 11

Note: Item numbers in boldface type are classified to more than one objective and/or subskill.

Science	Item Numbers		
	Objectives subskills	Complete Battery	Multiple Assessments
<b>19 Science Inquiry</b>			
data interpretation	3, 6, 18	3, 6, 18, 22	
methods and design	13	13	
<b>20 Physical Science</b>			
energy	2, 8	2, 8, 27, 29	
structure and properties of matter	4, 15, 17	4, 15, 17	
<b>21 Life Science</b>			
habitat and adaptation	7, 9, 10	7, 9, 10, 23, 25, 28	
taxonomy	1, 11, 19	1, 11, 19, 21, 24, 26	
<b>22 Earth and Space Science</b>			
changes in the Earth and sky	14, 16	14, 16	
objects in the sky	5, 20	5, 20	
<b>23 Science and Technology</b>			
use of technology	12	12	

**LEVEL 11**

Social Studies	Item Numbers	
	Complete Battery	Multiple Assessments
<b>26 Geographic Perspectives</b>		
the world in spatial terms	5, 19, 20	5, 19, 20
places and regions	11	11, 26
human systems	6	6
environment and society	10, 18	10, 18
<b>27 Historical and Cultural Perspectives</b>		
people, places, events	9	9
time, continuity, change	3, 15, 16	3, 15, 16, 23, 27, 28
<b>28 Civics and Government Perspectives</b>		
purposes of government	7	7, 22
democratic values and principles	17	17, 24
government processes and structures	13	13
the role of the citizen	2, 4	2, 4
<b>29 Economic Perspectives</b>		
production, distribution, consumption	8, 12, 14	8, 12, 14, 21, 25
global connections, interdependence	1	1

**LEVEL 11**

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**LEVEL 12**

Note: Item numbers in boldface type are classified to more than one objective and/or subskill.

Reading Objectives subskills	Item Numbers		
	Complete Battery	Survey	Multiple Assessments
<b>02 Basic Understanding</b>			
sentence meaning	3, 4	3, 4	3, 4
word recognition graphics	1, 2	1, 2	1, 2
initial understanding	43	32	36
stated information	6, 15	7	7
stated information graphics	5		
sequence	7, 29, 48	18, 37	18, 41
vocabulary	37	28	32
<b>03 Analyze Text</b>			
main idea/theme	13	5	5
cause/effect	44	33	<b>24, 25, 37</b>
conclusions	16	8	8
story elements/character	14, 31, 46	6, 20, 35	6, 20, 39
story elements/setting	28	17	17
<b>04 Evaluate/Extend Meaning</b>			
reality/fantasy	10, 18		
generalize	17	9	9
author/purpose	35	26	30
critical assessment	32	21	21, 26
predict/hypothesize	8, 47	36	40
extend/apply meaning	30	19	19
<b>05 Reading and Writing Strategies</b>			
summarize	33	24	28
apply genre criteria	36	27	31
vocabulary strategies	9		<b>46</b>
graphic strategies			<b>45</b>
make connections	34, 45	25, 34	29, 38
writing development	38, 39, 40, 41, 49, 50, 51, 52	29, 30, 31, 38, 39, 40	<b>24, 33, 34, 35, 42, 43, 44, 45, 46</b>
<b>06 Introduction to Print</b>			
word analysis	11, 12, 19, 20, 21, 22, 23, 24, 25, 26, 27, 42	10, 11, 12, 13, 14, 15, 16, 22, 23	10, 11, 12, 13, 14, 15, 16, 22, 23, 27, 47

**LEVEL 12**

Note: Item numbers in boldface type are classified to more than one objective and/or subskill.

Mathematics	Item Numbers			
	Objectives subskills	Complete Battery	Survey	Multiple Assessments
<b>10 Number and Number Relations</b>				
counting	37	26		26
read, recognize numbers	11, 40	22		22
compare, order	14, 43	23		23
money	46			
fractional part	39	21		21
place value	22			
number line	21	11		11
rounding, estimation	38	20		20
<b>11 Computation and Numerical Estimation</b>				
computation	1, 3, 4, 5	2, 3, 4		2, 3, 4
computation in context	44			<b>32</b>
computation with money	2, 24	1, 25		1, 25
<b>12 Operation Concepts</b>				
operation sense	41			
operation properties	34, 45			<b>31</b>
represent operations	17	14		14
<b>13 Measurement</b>				
appropriate tool	6			
time				<b>28</b>
calendar				<b>30</b>
temperature	33	17		17
perimeter	13			
area	31			
mass, weight	15			
<b>14 Geometry and Spatial Sense</b>				
plane figure	12, 35	6, 16		6, 16
congruence, similarity	7	5		<b>5, 27</b>
sort/group	29	13		13
visualization, spatial reasoning	30	12		12
use geometric models to solve problems				<b>34</b>
<b>15 Data Analysis, Statistics and Probability</b>				
read pictograph	25, 26	19		19
read bar graph	8, 9	8, 9		8, 9
interpret data display	27			<b>33</b>
draw conclusions from data	28	18		18
probability	42			
<b>16 Patterns, Functions, Algebra</b>				
missing element	10, 16			
number pattern	19	7		7
model problem situation	32			<b>29</b>
<b>17 Problem Solving and Reasoning</b>				
identify missing/extra information	18, 20	10, 15		10, 15
develop, explain strategy	23			
evaluate solution	36	24		24
deductive/inductive reasoning	47			
spatial reasoning				<b>27</b>
model problem situation, solution				<b>29, 32, 34</b>
<b>18 Communication</b>				
model math situations				<b>28, 30, 31, 33</b>

**LEVEL 12**

Science	Item Numbers			
	Objectives subskills	Complete Battery	Survey	Multiple Assessments
<b>19 Science Inquiry</b>				
data interpretation	7, 13, 21	5, 10, 17	5, 10, 17	
methods and design	5, 19, 23	3, 19	3, 19	
<b>20 Physical Science</b>				
energy	20, 24, 25	16, 20	16, 20, 26	
structure and properties of matter	12, 16	9, 13	9, 13	
<b>21 Life Science</b>				
habitat and adaptation	4, 6, 10, 18	4, 7, 15	4, 7, 15	
life cycles	15	12	12, 23	
taxonomy	11	8	8, 27	
<b>22 Earth and Space Science</b>				
changes in the Earth and sky	22	18	18, 24	
Earth material	2, 17	2, 14	2, 14	
objects in the sky	1	1	1, 22	
<b>23 Science and Technology</b>				
design of technology	8, 14	11	11, 21	
science and technology	3			
use of technology	9	6	6, 25, 28	

**LEVEL 12**

Social Studies	Item Numbers			
	Objectives subskills	Complete Battery	Survey	Multiple Assessments
<b>26 Geographic Perspectives</b>				
the world in spatial terms	2, 3	1, 2	1, 2, 21, 22, 23	
places and regions	21	17	17	
human systems	9	8	8, 24	
environment and society	12, 14, 19	13	13, 26	
<b>27 Historical and Cultural Perspectives</b>				
cultures, cultural diversity	13, 25	20	20	
people, places, events	1, 10, 11	9, 10	9, 10, 27	
time, continuity, change	6, 7	5, 6	5, 6	
<b>28 Civics and Government Perspectives</b>				
purposes of government	17, 23	11, 19	11, 19, 29	
democratic values and principles	15, 16	14, 15	14, 15	
government processes and structures	4	3	3	
<b>29 Economic Perspectives</b>				
production, distribution, consumption	5, 8, 20, 22, 24	4, 7, 16, 18	4, 7, 16, 18, 25, 28	
economic institutions and systems	18	12	12	

**LEVEL 12**

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**LEVEL 12**

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## LEVEL 13

Reading	Item Numbers					
	Objectives subskills	Complete Battery	Survey	Multiple Assessments	TNCC Form 1	TNCC Form 2
<b>02 Basic Understanding</b>						
initial understanding	7, 22	7	7	7	7	
stated information	1, 12, 31	1, 16	1, 18	1, 21, 18	1, 16, 21	
sequence	4, 9, 17, 18, 23, 37	4, 9, 12, 22	4, 9, 12, 24	4, 9, 12, 27	4, 9, 12, 27	
<b>03 Analyze Text</b>						
main idea/theme	27					
conclusions	2, 16, 19, 38, 39	2, 13, 23, 24	2, 13, 25, 26, 35	2, 13, 28, 29	2, 13, 28, 29, 37	
compare/contrast	10	10	10	10	10	
story elements/character	8, 13, 25	8	8	8, 16	8, 36	
story elements/plot	15					
story elements/setting	35	20	22	25	25	
supporting evidence	24		16	19	17	
<b>04 Evaluate/Extend Meaning</b>						
reality/fantasy	32	17	19	22	22	
author/purpose	42	27	29	32	32	
critical assessment	5, 26, 29, 33, 36	5, 18, 21, 29	5, 20, 23, 31, 34	5, 20, 23, 26, 34	5, 23, 26, 34	
predict/hypothesize	11	11	11	11	11	
extend/apply meaning			17	36	36	
<b>05 Reading and Writing Strategies</b>						
summarize	6	6	6, 33	6, 17	6	
apply genre criteria	28, 30, 34	19, 28, 30	21, 30, 32	24, 33, 35	24, 33, 35	
vocabulary strategies	3, 14, 21	3, 15	3, 15	3, 15	3, 15	
graphic strategies	20	14	14	14, 37	14, 18, 19, 20	
utilize structure	41	26	28	31	31	
reading strategies	40	25	27	30	30	
<b>Reading Common Core</b>						
<b>104 Key Ideas &amp; Details</b>						
Ask and answer questions				1, 4, 7, 9, 11, 19, 21, 23, 25, 34	1, 4, 7, 9, 11, 16, 17, 21, 23, 25, 34	
Recount stories/central mssg				5, 6, 17, 18, 24	5, 6, 24, 37	
Describe characters in a story				2, 8, 10	2, 8, 10, 36	
Ask and answer questions				13	13	
Det main idea/recount key dets				26, 28, 29, 32, 36	17, 26, 28, 29, 32	
Descr relationships btw a series				12	12, 16	
<b>105 Craft &amp; Structure</b>						
Determ meaning of wds/phrases				3	3	
Refer to parts of texts				16, 20		
Distinguish own pov from chars						
Det meaning of academ wds/phrs						
Use txt features/search tools				14, 30, 31	14, 30, 31	
Distinguish own pov from auth						

## LEVEL 13

Reading Common Core Objectives subskills	Item Numbers				
	Complete Battery	Survey	Multiple Assessments	TNCC Form 1	TNCC Form 2
<b>106 Integ Knowledge &amp; Ideas</b>					
Explain how illus contribute					
Compare themes/settings/plots					
Use info from illus/wds in txt				37	18, 19, 20
Describe conn btw sents/paras				27	27
Compare pts/dets in two txts					
<b>107 Reading Literature Text</b>				1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 16, 17, 18, 19, 20, 21, 23, 24, 25	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 21, 23, 24, 25, 36, 37
<b>108 Reading Inform Text</b>				12, 13, 14, 26, 27, 28, 29, 30, 31, 32, 34, 36, 37	12, 13, 14, 16, 17, 18, 19, 20, 26, 27, 28, 29, 30, 31, 32, 34
<b>Language</b>					
<b>07 Sentence Structure</b>					
subject/predicate	1, 2	1	1	1	1
complete/fragment/run-on	11, 12, 13	8, 9	8, 9	8, 9	8, 9
sentence combining	18, 19, 20	14	14	14	14
<b>08 Writing Strategies</b>					
topic sentence	24	17	17	17	17
relevance	22, 25	15, 18	15, 18	15, 18	15, 18
sequence	21, 23	16	16	16	16
information sources	26				
organize information	28	20	20	20	20
writing strategies			22, 23	21	21
topic selection/narrowing	27	19	19	19	19
<b>09 Editing Skills</b>					
capitalization	16, 17	12, 13	12, 13	12, 13	12, 13
punctuation	9, 10	7	7	7	7
usage	3, 4, 5, 6, 7, 8, 14, 15	2, 3, 4, 5, 6, 10, 11	2, 3, 4, 5, 6, 10, 11	2, 3, 4, 5, 6, 10, 11	2, 3, 4, 5, 6, 10, 11
proofreading			21		
<b>Language Common Core</b>					
<b>101 Conven of Stand English</b>					
Dem command of grammar/usage				21	21
Expl function of wrds in sents					
Form and use plural nouns					
Use abstract nouns					
Form and use verbs				10	10
Form and use simple verb tense				2	2
Ensure subj-verb/pron-ant agrmt				5, 6	5, 6
Form compartv/superltv adj/adv				3, 4, 11	3, 4, 11
Use coord/subord conjunctions					
Prod simple/compnd/complex sent				1, 8, 9, 14	1, 8, 9, 14

## LEVEL 13

Language Common Core	Item Numbers				
	Complete Battery	Survey	Multiple Assessments	TNCC Form 1	TNCC Form 2
Dem command of cap/punc/spllng				7, 12, 13, 21	7, 12, 13, 21
Capitalize words in titles					
Use commas in addresses					
Use commas/quotes in dialogue					
Form and use possessives					
Use conventional spelling					
Use spelling patterns					
Consult ref matls for spelling					
<b>102 Knowledge of Language</b>					
Use knowl of lang/conventions				21	21
Choose wrds/phrases for effect					
Recog diff btw spokn/writn Eng					
<b>103 Vocab Acquisition &amp; Use</b>					
Det/clarify mng-multi mng wds				21	21
Use sent-level contxt as clue					
Det word meaning w/affix added					
Use root word as clue to mng					
Use glossaries/dictionaries					
Dem undrstdng-fig lang/wd rel				21	21
Disting lit/nonlit mng of wrds					
Ident real-life conn btw words					
Distinguish shades of meaning					
<b>109 Text Types &amp; Purposes</b>					
Write opinion pieces					
Introduce the topic or text					
Provide reasons that support					
Use linking words and phrases					
Provide a concluding statement					
Write informtve/explantry txts					
Introduce a topic				17	17
Develop the topic					
Use linking words and phrases					
Provide a concluding statement					
Write narratives				21	21
Establish a situation					
Use dialogue and descriptions					
Use temporal words and phrases					
Provide a sense of closure					
<b>110 Prod &amp; Distrib Writing</b>					
Produce writing				15, 16, 18, 20	15, 16, 18, 20
Develop and strengthen writing					
Use tech to produce writing					
<b>111 Resrch to Bld&amp;Pres Knowledge</b>					
Conduct short research projcts					
Recall info from experiences					

## LEVEL 13

Note: Item numbers in boldface type are classified to more than one objective and/or subskill.

Mathematics	Item Numbers					
	Objectives subskills	Complete Battery	Survey	Multiple Assessments	TNCC Form 1	TNCC Form 2
<b>10 Number and Number Relations</b>						
read, recognize numbers	15	10	10	10	10	10
compare, order	1, 14	8, 9	8, 9	8, 9	8, 9	8, 9
fractional part	4, 11	1	1	1, 31, 33, 35A, 35B	1, 31, 34A, 34B	1, 31, 34A, 34B
place value	36	29	29	29	29	29
expanded notation	23					
number line			<b>33</b>			
sets, models	46					
factors, multiples, divisibility						33
<b>11 Computation and Numerical Estimation</b>						
computation	3, 10	3, 6	3, 6	3, 6	3, 6	3, 6
computation in context	2, 12, 13, 16, 18	7, 11	7, 11	7, 11, 34B, 35C, 35F	7, 11, 35B, 35E, 35F	7, 11, 35B, 35E, 35F
estimation	19	13	13	13, 32	13	13
computation with money	8, 39	19	19	19	19	19
<b>12 Operation Concepts</b>						
model problem situation	45	16	16	16, 35D	16, 35D	16, 35D
operation properties	7	2	2	2	2	2
represent operations	21, 25		<b>31</b>			
<b>13 Measurement</b>						
time	30					
perimeter	33	24	24	24	24	24
area	32	23	23	23	23, 35C	23, 35C
mass, weight	24	15	15	15	15	15
use ruler	31, 44	22	<b>22, 36</b>	22	22	22
<b>14 Geometry and Spatial Sense</b>						
plane figure			<b>35</b>			
solid figure	26, 48	17	17	17	17	17
symmetry	34	25	25	25	25	25
transformations	22	14	14	14	14	14
visualization, spatial reasoning	47					
combine/subdivide shapes	37	30	30	30	30	30
sort/group						32
<b>15 Data Analysis, Statistics and Probability</b>						
read pictograph	40	27	27	27	27	27
read bar graph	27, 28	20, 21	20, 21	20, 21	20, 21	20, 21
interpret data display	43					
complete/construct data display			<b>32</b>	34A, 35E	35A	35A
probability	38	18	18	18	18	18
use data to solve problems	29					
<b>16 Patterns, Functions, Algebra</b>						
missing element	6, 9	4	4	4	4	4
number pattern	41	28	28	28	28	28
function	50					
expression			<b>37</b>			
rules	35, 49	26	<b>26, 38</b>	26	26	26
inequality	42		<b>34</b>			

## LEVEL 13

Note: Item numbers in boldface type are classified to more than one objective and/or subskill.

Mathematics	Item Numbers					
	Objectives subskills	Complete Battery	Survey	Multiple Assessments	TNCC Form 1	TNCC Form 2
<b>17 Problem Solving and Reasoning</b>						
identify missing/extra information	17	12	12	12	12	
develop, explain strategy	5	5	5	5	5	
deductive/inductive reasoning	20					
model problem situation, solution				<b>31, 35, 37</b>		
<b>18 Communication</b>						
model math situations				<b>36</b>		
relate models to ideas				<b>32, 33, 38</b>		
explain thinking				<b>34</b>		
<b>Mathematics Common Core</b>						
<b>116 Measurement and Data</b>						
Tell/write/measure time						35F
Measure/estimate vol, mass					7, 13, 15, 34B	7, 13, 15
Draw scaled graph/solve probs					20, 34A, 35E	20, 35A
Generate/graph measure data						
Understand unit square						
Understand area w/unit squares						
Find area using unit squares					23	23
Find area-rectangle by tiling						35C
Find area-rectangle w/formula						
Show area-same w/diff methods						
Find area by decomposing						
Solve perimeter problems					24	24
<b>117 Number/Ops - Fractions</b>						
Know fraction is part of whole					1, 35A	1
Rep unit fraction on num line						
Rep fractions on num line						
Understand equal fractions						
Recognize/create equal frac's					35B	31
Express whole num as fraction						34B
Compare fractions					33	34A
<b>118 Number/Ops - Base Ten</b>						
Round whole numbers						
Fluently add/sub within 1000					4, 5, 6, 11, 28, 35C, 35F	4, 5, 6, 11, 28, 35B
Mult 1-digit by multiple-10						35E
<b>119 Operations/Alg Thinking</b>						
Interpret whole num products					16	16
Interpret whole num quotients						
Solve mult/div word prob < 100					35D	
Find unknown-mult/div equation						
Mult/div using op properties						
Division as unknown factor					2	2
Fluently mult/div within 100					3	3
Solve two-step word problems					32	35D
Identify/explain num patterns					26	26, 33

## LEVEL 13

Mathematics Common Core Objectives subskills	Item Numbers				
	Complete Battery	Survey	Multiple Assessments	TNCC Form 1	TNCC Form 2
<b>120 Geometry</b>					
Understand attributes-shapes					
Partition shapes equally				31	32
<b>126 Make sense/persevere</b>				4, 5, 9, 12, 19, 34B, 35C, 35F	4, 5, 9, 12, 19, 35B, 35E, 35F
<b>127 Reason abstract/quant</b>				2, 7, 10, 11, 14, 17, 18, 20, 21, 23, 24, 25, 27, 29, 31, 32	2, 7, 10, 11, 14, 17, 18, 20, 21, 23, 24, 25, 27, 29, 31, 34A
<b>128 Arguments/critique</b>				35	32, 33, 35C
<b>129 Model with mathematics</b>				1, 8, 16, 30, 33, 35D	1, 8, 16, 30, 35D
<b>130 Use appropriate tools</b>				13, 15, 22	13, 15, 22
<b>131 Attend to precision</b>				3, 6, 34A, 35A, 35E	3, 6, 34B, 35A
<b>132 Look for/use of structure</b>				26, 28	26, 28
<b>133 Look for/exp rep reason</b>					
<b>Science</b>					
<b>19 Science Inquiry</b>					
data interpretation	4, 6, 10, 31	3, 19	3, 19, 30		3, 19, 30
methods and design	5, 16, 23, 30	4, 11	4, 11, 26		4, 11, 26
<b>20 Physical Science</b>					
energy	12, 13, 21	8, 15	8, 15		8, 15
structure and properties of matter	24, 33	16, 20	16, 20, 29		16, 20, 29
<b>21 Life Science</b>					
ecology	2, 28	1	1		1
habitat and adaptation	1, 29	18	18, 22, 27		18, 22, 27
life cycles	8, 26	6	6		6
taxonomy	9, 11	7	7, 21		7, 21
<b>22 Earth and Space Science</b>					
changes in the earth and sky					
rock dynamics	18, 20	12	12		12
solar system	19, 27	13	13		13
weather, atmosphere and climate	25	17	17		17
water dynamics	17	14	14, 28		14, 28
<b>23 Science and Technology</b>					
design of technology	15	10	10		10
science and technology	35		24		24
use of technology	3, 34	5	5, 25		5, 25
<b>24 Personal and Social Perspectives in Science</b>					
environment	14	9	9		9
health	7, 22	2	2, 23		2, 23
resources	32				

**LEVEL 13**

Social Studies	Item Numbers					
	Objectives subskills	Complete Battery	Survey	Multiple Assessments	TNCC Form 1	TNCC Form 2
<b>26 Geographic Perspectives</b>						
the world in spatial terms	15	17	17, 21		17, 21	
places and regions	14, 24, 25, 26	16	16		16	
human systems	5, 10, 11	14, 15	14, 15, 22		14, 15, 22	
environment and society	2	2	2		2	
<b>27 Historical and Cultural Perspectives</b>						
people, places, events	3, 4, 12, 13, 31	11, 12	11, 12		11, 12	
time, continuity, change	9, 18, 19	5, 6, 13	5, 6, 13, 26		5, 6, 13, 26	
historical research	32					
<b>28 Civics and Government Perspectives</b>						
purposes of government	1	1	1, 23		1, 23	
democratic values and principles	34					
government processes and structures	16, 20, 21, 22, 33, 35	7, 8, 9	7, 8, 9, 24		7, 8, 9, 24	
the role of the citizen	23	10	10		10	
<b>29 Economic Perspectives</b>						
production, distribution, consumption	6, 7, 8, 17, 27, 28, 29, 30	3, 4, 18, 19, 20	3, 4, 18, 19, 20, 27		3, 4, 18, 19, 20, 27	
global connections, interdependence			25		25	

## LEVEL 14

Note: Item numbers in boldface type are classified to more than one objective and/or subskill.

Reading	Item Numbers					
	Objectives subskills	Complete Battery	Survey	Multiple Assessments	TNCC Form 1	TNCC Form 2
<b>02 Basic Understanding</b>						
initial understanding	36, 42	23, 29	26, 32	29, 35	29, 35	
stated information	10	9	9	9, 18	9, 20	
vocabulary	5, 6, 7, 9, 16, <b>39</b> , 43	5, 6, 8, 26, 30	5, 6, 8, 29, 33	5, 6, 8, 32, 36	5, 6, 8, 32, 36	
<b>03 Analyze Text</b>						
main idea/theme	30	18	21	24	21, 24	
cause/effect	26					
conclusions	25					
compare/contrast	24		18			
story elements/character			38		19, 22, 40	
story elements/setting	33					
supporting evidence				19, 23, 40	41	
literary techniques	3, 34, 44	3, 21, 31	3, 24, 34	3, 27, 37	3, 27, 37	
persuasive techniques	11, 22, 38, 45	10, 25, 32	10, 28, 35	10, 31, 38	10, 31, 38	
<b>04 Evaluate/Extend Meaning</b>						
fact/opinion	23, 40	27	30	33	33	
generalize	31	19	22, 37	25	25	
author/purpose	2	2	2	2	2	
author/pov/bias	12, 35	11, 22	11, 25	11, 28	11, 28	
author/tone	46	33	36	39	39	
critical assessment	27			20		
predict/hypothesize	29		19, 39			
<b>05 Reading and Writing Strategies</b>						
summarize	28			41		
apply genre criteria	1	1	1	1	1	
vocabulary strategies	8, 14, 15, 41	7, 13, 28	7, 13, 31	7, 13, 34	7, 13, 34	
graphic strategies	13	12	12	12, 21, 22	12, 23	
formulate questions	4	4	4	4	4	
make connections			20			
synthesize across texts					18	
utilize structure	17, 18, 32, 37	14, 15, 20, 24	14, 15, 23, 27	14, 15, 26, 30	14, 15, 26, 30	
research resources	20, 21	17	17	17	17	
writing process	19	16	16	16	16	
<b>Reading Common Core</b>						
<b>104 Key Ideas &amp; Details</b>						
Refer to dets/examples in txt				25, 35, 40	20, 25, 35	
Determine theme/summarize				2, 24, 28, 41	2, 21, 24, 28	
Describe char/setting/event					19	
Refer to dets/examples in txt				9, 18	9	
Determine main idea/summarize				29	29, 40	
Expl event/proced/idea/concpt				19, 20	41	
<b>105 Craft &amp; Structure</b>						
Determ meaning of wds/phrases				3, 27, 37	3, 27, 37	
Explain diffs between texts				1, 26, 39	1, 26, 39	
Compare pov from diff stories						
Det meaning of academ wds/phrs				8, 32, 36	8, 32, 36	
Describe the overall structure				33	33	
Compare accounts/descr diffs						

## LEVEL 14

Reading Common Core Objectives subskills	Item Numbers				
	Complete Battery	Survey	Multiple Assessments	TNCC Form 1	TNCC Form 2
<b>106 Integ Knowledge &amp; Ideas</b>					
Make conn btw txt & vis/oral					22, 23
Compare similar themes/topics					18
Interp visual/oral/quant info				12, 14, 15, 21, 22, 23, 30	12, 14, 15, 30
Expl how auth uses reasns/evid				10, 31, 38	10, 31, 38
Integrate info from two texts					
<b>107 Reading Literature Text</b>				1, 2, 3, 24, 25, 26, 27, 28, 35, 37, 39, 40, 41	1, 2, 3, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 35, 37, 39
<b>108 Reading Inform Text</b>				8, 9, 10, 12, 14, 15, 18, 19, 20, 21, 22, 23, 29, 30, 31, 32, 33, 36, 38	8, 9, 10, 12, 14, 15, 29, 30, 31, 32, 33, 36, 38, 40, 41
<b>Language</b>					
<b>07 Sentence Structure</b>					
complete/fragment/run-on	3, 5, 18, 24, 31	3, 5, 18, 24	3, 5, 18, 24	3, 5, 18, 24	3, 5, 18, 24
sentence combining	6, 7, 8, 20, 22, 28	6, 7, 8, 20, 22	6, 7, 8, 20, 22	6, 7, 8, 20, 22	6, 7, 8, 20, 22
<b>08 Writing Strategies</b>					
topic sentence	9, 12	9, 12	9, 12	9, 12	9, 12
relevance	11, 16, 27, 34	11, 16, 27	11, 16, 27	11, 16, 27	11, 16, 27
sequence	10, 13, 23, 30	10, 13, 23	10, 13, 23	10, 13, 23	10, 13, 23
supporting sentences	14	14	14	14	14
organize information			29		
writing strategies			30	28	28
<b>09 Editing Skills</b>					
usage	1, 2, 4, 15, 17, 19, 21, 25, 26, 29, 32, 33	1, 2, 4, 15, 17, 19, 21, 25, 26	1, 2, 4, 15, 17, 19, 21, 25, 26	1, 2, 4, 15, 17, 19, 21, 25, 26	1, 2, 4, 15, 17, 19, 21, 25, 26
proofreading			28		
<b>Language Common Core</b>					
<b>101 Conven of Stand English</b>					
Dem command of grammar/usage				1, 2, 6, 7, 8, 15, 17, 21, 22, 25, 26, 28	1, 2, 6, 7, 8, 15, 17, 21, 22, 25, 26, 28
Use relative pronouns/adverbs					
Form/use progressive vrb tense					
Use modal auxiliaries					
Order adjectives within sents					
Form/use prepositional phrases					
Produce complete sentences				3, 4, 5, 18, 19, 20, 24	3, 4, 5, 18, 19, 20, 24
Correctly use freq conf words					
Dem command of cap/punc/spllng				28	28
Use correct capitalization					
Use commas and quotation marks					
Use comma before coord conj					
Spell grade-appropriate words					
<b>102 Knowledge of Language</b>					
Use knowl of lang/conventions				28	28
Choose wds/phrs to convey					
Choose punctuation for effect					
Diff btw formal/informal Engl					
<b>103 Vocab Acquisition &amp; Use</b>					
Det/clarify mng-multi mng wds				28	28
Use context as clue to meaning					
Use Greek/Latin roots as clues					

## LEVEL 14

Note: Item numbers in boldface type are classified to more than one objective and/or subskill.

Language Common Core Objectives subskills	Item Numbers				
	Complete Battery	Survey	Multiple Assessments	TNCC Form 1	TNCC Form 2
Consult ref materials for mng					
Dem undrstdng-fig lang/wd rel				28	28
Expl mng of similes/metaphors					
Recog mng-idioms/adages/provs					
Dem understng of wds-ant/syn					
<b>109 Text Types &amp; Purposes</b>					
Write opinion pieces				28	
Introduce a topic or text				9	9
Provide reasons that support					
Link opinion and reasons					
Provide a concluding statement					
Write informtve/explantry txts					28
Introduce a topic					
Develop the topic					
Link ideas within categories					
Use precise language					
Provide a concluding statement					
Write narratives					
Orient the reader				12	12
Use dialogue and description				14	14
Use transitional wds/phrases				13	13
Use concrete wds/phrases					
Provide a conclusion					
<b>110 Prod &amp; Distrib Writing</b>					
Produce clear/coherent writing				10	10
Develop and strengthen writing				11, 16, 23, 27	11, 16, 23, 27
Use tech to produce writing					
<b>111 Resrch to Bld&amp;Pres Knowledge</b>					
Conduct short research projects					
Recall info from experiences					
Apply G4 Rdng stds to lit					
Apply G4 Rdng stds to info txt					
<b>Mathematics</b>					
<b>10 Number and Number Relations</b>					
read, recognize numbers	24	16	16	16	16
compare, order	22, 49	14	14	14	14, 33
fractional part			<b>38</b>	33	
equivalent forms	10	10	10	10	10
number line	39, 46	31	31	31	31
rounding, estimation	44				
factors, multiples, divisibility	48				
place value					37A
<b>11 Computation and Numerical Estimation</b>					
computation	7, 14	7	7	7	7
computation in context	4, 5, 12, 13, 18, 21	4, 5, 13	4, 5, 13, <b>34, 41</b>	4, 5, 13, 36, 37C, 37D, 37E	4, 5, 13, 35
estimation	45				
computation with money	3, 27	3, 19	3, 19	3, 19	3, 19
recognize when to estimate	19	11	11	11	11
determine reasonableness			<b>35</b>		
estimation with money	8, 15	8	8	8	8

## LEVEL 14

Note: Item numbers in boldface type are classified to more than one objective and/or subskill.

Mathematics	Item Numbers					
	Objectives subskills	Complete Battery	Survey	Multiple Assessments	TNCC Form 1	TNCC Form 2
<b>12 Operation Concepts</b>						
operation sense	16					
operation properties	11					
represent operations	1, 2, 9	1, 2, 9	1, 2, 9, <b>36</b>	1, 2, 9	1, 2, 9	
<b>13 Measurement</b>						
estimate	47, 54					
time	20	12	12	12	12	
temperature	41					
length, distance	23	15	15	15	15	
perimeter			<b>33</b>			
area	32	24	24	24, 35	24, 37D	
mass, weight	36	28	28	28	28	
angle measure				37A		
convert measurement units					37B	
<b>14 Geometry and Spatial Sense</b>						
angles	55			37B		
triangles			<b>43</b>			
coordinate geometry	31	23	23	23	23	
parallel, perpendicular				34		
congruence, similarity	29	21	21	21	21	
symmetry	57				34	
transformations	26, 42	18	18	18	18	
connect 2D with 3D	34	26	26	26	26	
<b>15 Data Analysis, Statistics and Probability</b>						
read pictograph	25	17	17	17	17	
read circle graph	53					
interpret data display			<b>37, 40</b>			
draw conclusions from data	30	22	22	22	22	
statistics	38, 50	30	30	30	30	
probability	43, 56					
compare data	40	32	32	32	32	
<b>16 Patterns, Functions, Algebra</b>						
missing element	33, 35	25, 27	25, 27	25, 27	25, 27	
number pattern	37	29	29	29	29, 36	
function	52		<b>39</b>			
rules			<b>42</b>			
model problem situation	17					
<b>17 Problem Solving and Reasoning</b>						
identify missing/extra information	28	20	20	20	20	
formulate problem			<b>34, 41</b>			
develop, explain strategy	6	6	6	6	6	
deductive/inductive reasoning	51					
model problem situation, solution			<b>36</b>			
evaluate solution					37C	
<b>18 Communication</b>						
model math situations			<b>43</b>			
relate models to ideas			<b>37, 39</b>			
make conjectures			<b>42</b>			
explain thinking			<b>35, 38, 40</b>			
explain solution process			<b>33</b>			

## LEVEL 14

Mathematics Common Core Objectives subskills	Item Numbers				
	Complete Battery	Survey	Multiple Assessments	TNCC Form 1	TNCC Form 2
<b>116 Measurement and Data</b>					
Know relative sizes meas units					37B
Solve measurement word problem				5, 12, 19, 28	5, 12, 19, 28
Apply area/perimeter formulas				24, 35	24, 37C, 37D
Graph/solve problem-meas data					
Understand angle measurement					
Understand degrees-angle meas					
Measure/sketch angles				37A	
Add/subtract angle measures				37B, 37E	
<b>117 Number/Ops - Fractions</b>					
Explain equivalent fractions				10	10
Compare fractions					
Understand add/sub-fractions					
Decompose fractions					
Add/subtract mixed numbers				25	25
Add/sub fractions-word probs				2, 4	2, 4
Know frac-multiple unit frac				33	
Know multiple a/b= multiple 1/b					
Mult frac-whole num word prob					
Equiv fraction denom 10 to 100					
Frac to dec (denom 10, 100)					
Compare decimals to 100ths				14	14, 33
<b>118 Number/Ops - Base Ten</b>					
Understand place value					37A
Read/write/compare whole num				16	16
Round whole numbers					
Add/subtract whole numbers					
Multiply whole numbers				13, 36	13, 35
Divide whole numbers				1, 7, 27	1, 7, 27
<b>119 Operations/Alg Thinking</b>					
Interpret/rep mult equations					
Solve mult/div word problems					
Solve multistep word problems				6, 8, 37C, 37D	6, 8
Find factor/mult/prime/comp					
Generate patterns				29	29, 36
<b>120 Geometry</b>					
Draw/identify geom figures				34	
Classify 2-D figures					
Know/identify line of symmetry					34
<b>126 Make sense/persevere</b>				25, 27, 32, 34, 35, 36, 37B, 37C, 37D, 37E	25, 27, 32, 35, 37D
<b>127 Reason abstract/quant</b>				8, 11, 14, 16, 17, 21, 26	8, 11, 14, 16, 17, 21, 26, 33, 37A, 37B
<b>128 Arguments/critique</b>				20, 22	20, 22, 37C
<b>129 Model with mathematics</b>				1, 2, 6, 9, 18, 23, 33	1, 2, 6, 9, 18, 23, 34
<b>130 Use appropriate tools</b>				15, 28, 37A	15, 28
<b>131 Attend to precision</b>				3, 4, 5, 7, 10, 13, 19, 24, 30, 31	3, 4, 5, 7, 10, 13, 19, 24, 30, 31
<b>132 Look for/use of structure</b>				12, 29	12, 29, 36
<b>133 Look for/exp rep reason</b>					

## LEVEL 14

Science	Item Numbers					
	Objectives subskills	Complete Battery	Survey	Multiple Assessments	TNCC Form 1	TNCC Form 2
<b>19 Science Inquiry</b>						
data interpretation	16, 18, 26, 35	13, 15, 20	13, 15, 20, 31		13, 15, 20, 31	
methods and design	10, 13, 20, 27, 33	8, 11, 17	8, 11, 17, 32		8, 11, 17, 32	
<b>20 Physical Science</b>						
energy	1, 19, 31	16, 25	16, 25, 30		16, 25, 30	
structure and properties of matter	3, 11, 40	2, 9	2, 9		2, 9	
<b>21 Life Science</b>						
ecology	4, 15, 29	1, 3	1, 3, 28		1, 3, 28	
habitat and adaptation	6, 17	5, 14	5, 14, 29		5, 14, 29	
life cycles	12, 23	10	10, 35		10, 35	
taxonomy	7, 22	6	6, 37		6, 37	
<b>22 Earth and Space Science</b>						
rock dynamics	8, 28, 30	21, 22	21, 22, 34		21, 22, 34	
solar system	24, 25, 37	19, 23	19, 23, 33		19, 23, 33	
weather, atmosphere and climate	36	24	24		24	
water dynamics	39					
<b>23 Science and Technology</b>						
design of technology	21	18	18		18	
science and technology	2		27		27	
use of technology	9, 32	7	7		7	
<b>24 Personal and Social Perspectives in Science</b>						
environment	38					
health	5, 34	4	4, 26		4, 26	
resources	14	12	12, 36		12, 36	
<b>Social Studies</b>						
<b>26 Geographic Perspectives</b>						
the world in spatial terms	1, 2	1, 2	1, 2, 30		1, 2, 30	
places and regions	5, 6, 12, 38	8, 21	8, 21, 34		8, 21, 34	
human systems	3, 14	10	10		10	
environment and society	17, 39, 40	5, 22	5, 22, 27		5, 22, 27	
<b>27 Historical and Cultural Perspectives</b>						
cultures, cultural diversity	13, 15	9	9, 32		9, 32	
people, places, events	16, 35, 36	4	4		4	
time, continuity, change	18, 28, 29, 30	16, 23, 24, 25	16, 23, 24, 25, 26		16, 23, 24, 25, 26	
historical research	37					
<b>28 Civics and Government Perspectives</b>						
purposes of government			29		29	
democratic values and principles	20, 21	11, 12	11, 12		11, 12	
government processes and structures	8, 22	6, 13	6, 13		6, 13	
the role of the citizen	7, 9, 10, 11, 19, 26	7, 14	7, 14		7, 14	
world affairs			28		28	
<b>29 Economic Perspectives</b>						
production, distribution, consumption	4, 23, 24, 25, 31, 33, 34	3, 17, 19, 20	3, 17, 19, 20, 31, 33		3, 17, 19, 20, 31, 33	
economic institutions and systems	27	15	15		15	
global connections, interdependence	32	18	18		18	

## LEVEL 15

Reading	Item Numbers					
	Objectives subskills	Complete Battery	Survey	Multiple Assessments	TNCC Form 1	TNCC Form 2
<b>02 Basic Understanding</b>						
initial understanding	1	1	1	1	1	
stated information				41		
vocabulary	2, 8, 9, 38	2, 7, 8, 26	2, 7, 8, 29	2, 7, 8, 32	2, 7, 8, 32	
<b>03 Analyze Text</b>						
main idea/theme	36	24	27	30	18, 19, 30	
conclusions	24, 26, 44	31	34	37	37	
compare/contrast				20, 21		
story elements/character	3, 11, 28	3, 10	3, 10, 20, 39	3, 10	3, 10	
story elements/plot	13, 25	11	11	11	11	
supporting evidence				40	21, 40, 41	
literary techniques	6					
nonfiction elements			37			
<b>04 Evaluate/Extend Meaning</b>						
reality/fantasy	20	15	15	15	15	
fact/opinion	21	16	16	16	16	
author/purpose	27, 42	29	32	35	20, 35	
critical assessment	12, 31, 41, 43	19, 28, 30	22, 31, 33	18, 19, 25, 34, 36	25, 34, 36	
predict/hypothesize			18			
extend/apply meaning	32, 34	20, 22	23, 25	26, 28	26, 28	
<b>05 Reading and Writing Strategies</b>						
apply genre criteria	29, 40	27	30	33	33	
vocabulary strategies	4, 7, 22, 33, 37, 39	4, 6, 17, 21, 25	4, 6, 17, 24, 28	4, 6, 17, 27, 31	4, 6, 17, 27, 31	
formulate questions	5	5	5	5	5	
make connections	23		19			
synthesize across texts	30	18	21, 38	22, 24	24	
utilize structure	15, 18, 19, 35, 45	12, 14, 23, 32	12, 14, 26, 35	12, 14, 23, 29, 38	12, 14, 29, 38	
reading strategies	46	33	36	39	39	
research resources	10, 17	9, 13	9, 13	9, 13	9, 13	
graphic strategies					22, 23	
writing process	14, 16					
<b>Reading Common Core</b>						
<b>104 Key Ideas &amp; Details</b>						
Quote accurately from text				18, 22	40	
Determine theme/summarize				1, 19, 25, 26, 28	1, 25, 26, 28	
Compare 2+ chars/setting/evnts				20, 21		
Quote accurately from text				37	18, 37	
Determ 2+ main ideas/summarize				30, 40	19, 20, 30	
Expl relationships/interactns				41	22	
<b>105 Craft &amp; Structure</b>						
Determ meaning of wds/phrases				2, 4, 27	2, 4, 27	
Expl how txt parts fit togethr					41	
Descr narr/spkr pov influence						
Det meaning of academ wds/phrs				17, 31, 32	17, 31, 32	
Compare structure in 2+ txts				13	13	
Anlyze mult acctts of same evnt						

## LEVEL 15

Reading Common Core Objectives subskills	Item Numbers				
	Complete Battery	Survey	Multiple Assessments	TNCC Form 1	TNCC Form 2
<b>106 Integ Knowledge &amp; Ideas</b>					
Analyze how vis contrib to txt				23	
Compare stories in same genre					
Draw info from mult sources				12, 38, 39	12, 23, 38, 39
Expl how auth uses reasns/evid				35	35
Integrate info from sevr1 txts				24	21, 24
<b>107 Reading Literature Text</b>				1, 2, 4, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28	1, 2, 4, 24, 25, 26, 27, 28, 40, 41
<b>108 Reading Inform Text</b>				12, 13, 17, 30, 31, 32, 35, 37, 38, 39, 40, 41	12, 13, 17, 18, 19, 20, 21, 22, 23, 30, 31, 32, 35, 37, 38, 39
<b>Language</b>					
<b>07 Sentence Structure</b>					
complete/fragment/run-on	3, 19, 26, 27, 33	3, 18, 25, 26	3, 18, 25, 26	3, 18, 25, 26	3, 18, 25, 26
sentence combining	5, 6, 7, 8, 20, 24, 32	5, 6, 7, 8, 19, 23	5, 6, 7, 8, 19, 23	5, 6, 7, 8, 19, 23	5, 6, 7, 8, 19, 23
<b>08 Writing Strategies</b>					
topic sentence	13, 15	13, 15	13, 15	13, 15	13, 15
relevance	9, 11	9, 11	9, 11	9, 11	9, 11
sequence	10, 12, 14, 34	10, 12, 14	10, 12, 14	10, 12, 14	10, 12, 14
supporting sentences	18, 22	17, 21	17, 21	17, 21	17, 21
information sources	16		29		
writing strategies			30	28	28
<b>09 Editing Skills</b>					
usage	1, 2, 4, 17, 21, 23, 25, 28, 29, 30, 31	1, 2, 4, 16, 20, 22, 24, 27	1, 2, 4, 16, 20, 22, 24, 27	1, 2, 4, 16, 20, 22, 24, 27	1, 2, 4, 16, 20, 22, 24, 27
proofreading			28		
<b>Language Common Core</b>					
<b>101 Conven of Stand English</b>					
Dem command of grammar/usage				1, 2, 3, 4, 18, 20, 24, 25, 26, 28	1, 2, 3, 4, 18, 20, 24, 25, 26, 28
Expl func of conj/prep/interj				5, 6, 7, 8, 19, 23	5, 6, 7, 8, 19, 23
Form/use perfect verb tense					
Use tense to convey times/seqs					
Recgnze/corrct shifts in tense				16, 22, 27	16, 22, 27
Use correlative conjunctions					
Dem command of cap/punc/splng				28	28
Use punct w/items in a series					
Use comma w/intro element					
Use comma to set off yes/no					
Use ul/quotes/ital w/titles					
Spell grade-appropriate words					
<b>102 Knowledge of Language</b>					
Use knowl of lang/conventions				28	28
Expand/combine/reduce sents					
Compare varieties of English					

## LEVEL 15

Language Common Core	Item Numbers				
	Complete Battery	Survey	Multiple Assessments	TNCC Form 1	TNCC Form 2
<b>103 Vocab Acquisition &amp; Use</b>					
Det/clarify mng-multi mng wds				28	28
Use context as clue to meaning					
Use Greek/Latin roots as clues					
Consult ref materials for mng					
Dem undrstdng-fig lang/wd rel				28	28
Interpret figurative language					
Recog mng-idioms/adages/provs					
Use relationship between words					
<b>109 Text Types &amp; Purposes</b>					
Write opinion pieces					
Introduce a topic or text					
Provide ordered reasons					
Link opinion and reasons					
Provide a concluding statement					
Write informtve/explanry txts				28	
Introduce a topic				13, 15	13, 15
Develop the topic				17	17
Link ideas within categories				10, 12, 14	10, 12, 14
Use precise language					
Provide a concluding statement					
Write narratives					28
Orient the reader					
<b>Use narrative techniques</b>					
Use transitional wds/phrases					
Use concrete wds/phrases				21	21
Provide a conclusion					
<b>110 Prod &amp; Distrib Writing</b>					
Produce clear/coherent writing					
Develop and strengthen writing				9, 11	9, 11
Use tech to produce writing					
<b>111 Resrch to Bld&amp;Pres Knowldge</b>					
Conduct short research projcts					
Recall info from experiences					
Apply G5 Rdng stds to lit					
Apply G5 Rdng stds to info txt					

## LEVEL 15

Note: Item numbers in boldface type are classified to more than one objective and/or subskill.

Mathematics	Item Numbers					
	Objectives subskills	Complete Battery	Survey	Multiple Assessments	TNCC Form 1	TNCC Form 2
<b>10 Number and Number Relations</b>						
compare, order	27	22	22, <b>35</b>	22	22	
fractional part	18					
ratio, proportion	47					
percent	15, 38	10	10	10	10	
number line	30					
rounding, estimation	14	9	9	9	9	
factors, multiples, divisibility	40, 43, 51	31	31, <b>40</b>	31	31	
prime, composite numbers	55	29	29	29	29	
<b>11 Computation and Numerical Estimation</b>						
computation	8, 10	3	3	3	3	
computation in context	2, 9, 12, 13, 17	2, 5, 7	2, 5, 7	2, 5, 7, 37A, 37B, 37C, 37D	2, 5, 7, 34, 37A, 37C, 37E, 37F	
estimation	7, 16	11	11	11	11	
computation with money	5	8	8	8	8	
recognize when to estimate	4, 54	12	12	12	12	
<b>12 Operation Concepts</b>						
model problem situation	11					
order of operations	26	21	21	21, 34	21	
permutations, combinations	31					
operation properties	3	6	6	6	6	
represent operations	1, 49	1, 25	1, 25	1, 25	1, 25	
<b>13 Measurement</b>						
appropriate unit	44, 57	32	32	32	32	
estimate	29					
time	42	30	30	30	30	
volume, capacity				36	35, 37D	
perimeter	56		<b>33</b>			
mass, weight	35					
circumference	32					
scale drawing, map, model	19	13	13, <b>37</b>	13	13	
convert measurement units	50	26	26	26	26, 37B	
<b>14 Geometry and Spatial Sense</b>						
plane, figure				33		
triangles	34	14	14	14	14	
coordinate geometry	22	17	17	17, 35	17, 33, 36	
congruence, similarity	21	16	16, <b>34</b>	16	16	
transformations			<b>43</b>			
visualization, spatial reasoning	28	23	23	23	23	
<b>15 Data Analysis, Statistics and Probability</b>						
read table, chart, diagram	25	20	20, <b>42</b>	20	20	
interpret data display	20, 24	15, 19	15, 19	15, 19	15, 19	
complete/construct data display			<b>36</b>			
make inferences from data	52					
draw conclusions from data	53	27	27	27	27	
statistics	36, 45					
probability	41					
use data to solve problems			<b>39</b>			

## LEVEL 15

Note: Item numbers in boldface type are classified to more than one objective and/or subskill.

Mathematics	Item Numbers					
	Objectives subskills	Complete Battery	Survey	Multiple Assessments	TNCC Form 1	TNCC Form 2
<b>16 Patterns, Functions, Algebra</b>						
variable	33					
rules	37	28	28, <b>38</b>	28	28	
model problem situation	6	4	4, <b>41</b>	4	4	
use algebra to solve problems	39					
<b>17 Problem Solving and Reasoning</b>						
identify missing/extra information	23	18	18	18	18	
formulate problem			<b>33</b>			
solve non-routine problem	48	24	24	24	24	
evaluate solution			<b>39</b>			
generalize solution			<b>38</b>			
deductive/inductive reasoning	46					
spatial reasoning			<b>43</b>			
proportional reasoning			<b>37</b>			
model problem situation, solution			<b>41, 42</b>			
<b>18 Communication</b>						
model math situations			<b>36, 40</b>			
explain thinking			<b>34</b>			
explain solution process			<b>35</b>			
<b>Mathematics Common Core</b>						
<b>116 Measurement and Data</b>						
Convert measurement units				9, 26	9, 26, 37B	
Graph meas data; solve problem						
Understand cubic unit						
Understand volume measurement						
Measure volume w/cubic units						
Measure volume w/unit cubes				36	35	
Measure volume using formulas					37D	
Solve problems-add volumes						
<b>117 Number/Ops - Fractions</b>						
Understand place value						
Exp number of zeroes in mult				37A, 37C		
Read/write decimals						
Compare decimals				37B		
Round decimals						
Multiply whole numbers						
Divide whole numbers						
Compute with decimals				37F		
Divide unit frac/whole number						
Divide whole number/unit frac						
Div frac/whole num-word prob						
<b>118 Number/Ops - Base Ten</b>						
Understand place value						
Exp number of zeroes in mult						
Read/write decimals						
Compare decimals						
Round decimals						
Multiply whole numbers				5, 37C	5	
Divide whole numbers				25	25, 34	
Compute with decimals				3, 8, 37D	3, 8, 37A, 37E	

## LEVEL 15

Mathematics Common Core	Item Numbers				
	Complete Battery	Survey	Multiple Assessments	TNCC Form 1	TNCC Form 2
<b>119 Operations/Alg Thinking</b>					
Use parens/evaluate num exp				6, 34	6
Write/interpret numerical exp				1, 4	1, 4
Create num patterns-diff rules				35	36
<b>120 Geometry</b>					
Understand coordinate graphing					33
Graph/interpret pts-Quadrant I				17	17
Know attributes-geo hierarchy				33	
Classify 2-D figs in hierarchy				14	14
<b>126 Make sense/persevere</b>				10, 24, 26, 31, 36	10, 24, 26, 31, 35, 37B
<b>127 Reason abstract/quant</b>				6, 9, 11, 15, 16, 19, 21, 22, 23, 25, 29, 32, 33	6, 9, 11, 15, 16, 19, 21, 22, 23, 25, 29, 32, 33
<b>128 Arguments/critique</b>				12, 14, 18, 27	12, 14, 18, 27
<b>129 Model with mathematics</b>				1, 4, 35	1, 4, 34, 36
<b>130 Use appropriate tools</b>				13	13
<b>131 Attend to precision</b>				2, 3, 5, 7, 8, 17, 20, 30, 34, 37A, 37B, 37D	2, 3, 5, 7, 8, 17, 20, 30, 37A, 37C, 37D, 37E, 37F
<b>132 Look for/use of structure</b>				28, 37C	28
<b>133 Look for/exp rep reason</b>					
<b>Science</b>					
<b>19 Science Inquiry</b>					
data interpretation	4, 5, 21, 23, 24, 27, 38	4, 18, 19, 21	4, 18, 19, 21, 26		4, 18, 19, 21, 26
methods and design	15, 19	10, 15	10, 15		10, 15
<b>20 Physical Science</b>					
energy	8, 9, 22, 39	5, 6	5, 6		5, 6
motions and forces	36	17	17		17
structure & properties of matter	16, 34	13, 22	13, 22, 29		13, 22, 29
<b>21 Life Science</b>					
ecology	30	25	25		25
habitat and adaptation	1, 25	1	1, 27		1, 27
life cycles	3, 40		30		30
taxonomy	10, 17, 32, 37	8, 16, 23, 24	8, 16, 23, 24, 35		8, 16, 23, 24, 35
<b>22 Earth and Space Science</b>					
rock dynamics	31	14	14		14
solar system	6, 29	3	3		3
weather, atmosphere and climate	14, 35				
water dynamics	11, 18	9, 11	9, 11, 31		9, 11, 31
<b>23 Science and Technology</b>					
design of technology	28		28		28
science and technology	7	2	2		2
use of technology	2, 13	12	12, 33		12, 33
<b>24 Personal and Social Perspectives in Science</b>					
environment	20		32		32
health	12	7	7, 34		7, 34
resources	26, 33	20	20		20

**LEVEL 15**

Social Studies	Item Numbers					
	Objectives subskills	Complete Battery	Survey	Multiple Assessments	TNCC Form 1	TNCC Form 2
<b>26 Geographic Perspectives</b>						
the world in spatial terms	10, 11, 14, 15, 26, 27, 30, 32	5, 6, 7, 18, 20, 22	5, 6, 7, 18, 20, 22, 28		5, 6, 7, 18, 20, 22, 28	
places and regions	28, 33, 37	23	23		23	
human systems	19, 20, 25	16, 17	16, 17		16, 17	
environment and society	18		26, 34		26, 34	
<b>27 Historical and Cultural Perspectives</b>						
cultures, cultural diversity	17		27, 32		27, 32	
people, places, events	16, 22, 23, 24, 31, 36	10, 11, 12, 21	10, 11, 12, 21, 29, 30		10, 11, 12, 21, 29, 30	
time, continuity, change	21					
historical research	29	19	19, 35		19, 35	
<b>28 Civics and Government Perspectives</b>						
purposes of government	5, 6, 7	1, 2	1, 2		1, 2	
democratic values and principles	1	3	3, 31		3, 31	
government processes and structures	38, 39, 40	13, 14	13, 14		13, 14	
<b>29 Economic Perspectives</b>						
production, distribution, consumption	3, 4, 9, 13, 35	9, 15, 25	9, 15, 25		9, 15, 25	
economic institutions and systems	8					
global connections, interdependence	2, 12, 34	4, 8, 24	4, 8, 24, 33		4, 8, 24, 33	

## LEVEL 16

Reading	Item Numbers					
	Objectives subskills	Complete Battery	Survey	Multiple Assessments	TNCC Form 1	TNCC Form 2
<b>02 Basic Understanding</b>						
stated information	24, 36	24	27	30	30	
sequence	43, 45	30, 32	33, 35	36, 38	36, 38	
vocabulary	17, 33, 35	15, 21, 23	15, 24, 26	15, 27, 29	15, 27, 29	
initial understanding						16
<b>03 Analyze Text</b>						
main idea/theme	23			16		
cause/effect	37	25	28	31	31, 40	
conclusions	27		38			
compare/contrast	41	28	17, 31	34	20, 34	
story elements/character	3	3	3	3	3, 41	
story elements/plot	38	26	29	32	32	
supporting evidence	4				18	
literary techniques	1, 5	1, 4	1, 4, 16, 37, 39	1, 4	1, 4	
persuasive techniques	15	13	13	13	13	
<b>04 Evaluate/Extend Meaning</b>						
author/purpose	12, 30, 39	10, 18	10, 21	10, 24, 40	10, 24	
author/pov/bias	6	5	5	5, 17, 18	5	
author/tone	21, 22, 28	16	19	22	22	
critical assessment	8, 31	7, 19	7, 22	7, 18, 25	7, 25	
predict/hypothesize	2	2	2	2	2	
extend/apply meaning	29	17	18, 20	21, 23	23	
<b>05 Reading and Writing Strategies</b>						
apply genre criteria	11, 19, 20, 26	9	9	9	9	
vocabulary strategies	9, 10, 13, 25, 44	8, 11, 31	8, 11, 34	8, 11, 37	8, 11, 37	
graphic strategies	40	27	30	19, 33, 41	33	
self-monitor				20	21	
utilize structure	32, 46	20, 33	23, 36	26, 39	17, 19, 26, 39	
reading strategies	42	29	32	35	35	
research resources	7, 14, 18, 34	6, 12, 22	6, 12, 25	6, 12, 28	6, 12, 28	
writing process	16	14	14	14	14	
<b>Reading Common Core</b>						
<b>104 Key Ideas &amp; Details</b>						
Cite txt evid to supp analysis				30, 32	30, 32	
Det theme/cent idea/summarize				23	16, 23	
Describe how plot unfolds				3, 33	3, 33, 40	
Cite txt evid to supp analysis				30, 32	30, 32	
Determ central idea/summarize				16, 19	18	
Analyze intro-indiv/evnt/idea				18		
<b>105 Craft &amp; Structure</b>						
Determ meaning of wds/phrases				1, 2, 4, 22, 25, 27, 29	1, 2, 4, 22, 25, 27, 29	
Anlyze how txt prts fit toghtr				24, 26	24, 26, 41	
Explain how auth develops pov				5	5	
Determ meaning of wds/phrases				8, 13, 15	8, 13, 15	
Anlyze how txt prts fit struct				9, 36, 38, 39, 40	9, 17, 19, 36, 38, 39	
Determine author pov/purpose				7, 10, 17, 18, 20	7, 10	

## LEVEL 16

Reading Common Core Objectives subskills	Item Numbers				
	Complete Battery	Survey	Multiple Assessments	TNCC Form 1	TNCC Form 2
<b>106 Integ Knowledge &amp; Ideas</b>					
Comp rding txt to listng/vwing					
Comp txts in diff forms/genres					
Integ info-diff media/formats				21, 41	21
Trace/eval argument/claims					
Compare one author w/another					20
<b>107 Reading Literature Text</b>				1, 2, 3, 4, 5, 22, 23, 24, 25, 26, 27, 29, 30, 32, 33	1, 2, 3, 4, 5, 22, 23, 24, 25, 26, 27, 29, 30, 32, 33, 40, 41
<b>108 Reading Inform Text</b>				7, 8, 9, 10, 13, 15, 16, 17, 18, 19, 20, 21, 36, 38, 39, 40, 41	7, 8, 9, 10, 13, 15, 16, 17, 18, 19, 20, 21, 36, 38, 39
<b>Language</b>					
<b>07 Sentence Structure</b>					
complete/fragment/run-on	21, 25, 29, 33	19, 23, 27	19, 23, 27	19, 23, 27	19, 23, 27
sentence combining	7, 8, 9, 19, 27, 31	6, 7, 8, 17, 25	6, 7, 8, 17, 25	6, 7, 8, 17, 25	6, 7, 8, 17, 25
misplaced modifier	6	5	5	5	5
<b>08 Writing Strategies</b>					
topic sentence	12, 14	12	12	12	12
relevance	10	9	9	9	9
sequence	11, 13	10, 11	10, 11	10, 11	10, 11
supporting sentences	23, 24, 34	21, 22	21, 22	21, 22	21, 22
connective/transitional words	22, 32	20	20	20	20
information sources	16, 17	14, 15	14, 15, 30	14, 15	14, 15
organize information	15	13	13, 29	13	13
writing strategies				28	28
topic selection/narrowing	18	16	16	16	16
<b>09 Editing Skills</b>					
usage	1, 2, 3, 4, 5, 20, 26, 28, 30	1, 2, 3, 4, 18, 24, 26	1, 2, 3, 4, 18, 24, 26	1, 2, 3, 4, 18, 24, 26	1, 2, 3, 4, 18, 24, 26
proofreading			28		
<b>Language Common Core</b>					
<b>101 Conven of Stand English</b>					
Dem command of grammar/usage				2, 3, 4, 19, 23, 26, 27, 28	2, 3, 4, 19, 23, 26, 27, 28
Ensure prons are proper case					
Use intensive pronouns					
Recog/correct pronoun shifts					
Recog/corrct vague pronouns				1, 18, 24	1, 18, 24
Recog variants from std Engl					
Dem command of cap/punc/splng				28	28
Use punct to set off elements					
Spell correctly					
<b>102 Knowledge of Language</b>					
Use knowl of lang/conventions				6, 7, 8, 17, 28	6, 7, 8, 17, 28
Vary sentence patterns					
Maintain consist in style/tone					

## LEVEL 16

Language Common Core Objectives subskills	Item Numbers				
	Complete Battery	Survey	Multiple Assessments	TNCC Form 1	TNCC Form 2
<b>103 Vocab Acquisition &amp; Use</b>					
Det/clarify mng-multi mng wds				28	28
Use context as clue to meaning					
Use Greek/Latin roots as clues					
Consult reference materials					
Verify determin of wd/phrs mng					
Dem undrstdng-fig lang/wd rel				28	28
Interpret figures of speech					
Use relationship between words					
Disting among connotatn of wds					
<b>109 Text Types &amp; Purposes</b>					
Write arguments					28
Introduce claims				12	12
Support claims					
Use wds/phrs/clause to clarify					
Estabsh/maintain formal style					
Provide concluding statement					
Write informatve/explantry txts					
Introduce a topic					
Develop the topic				21, 22	21, 22
Use transitions to clarify				10, 11, 20, 25	10, 11, 20, 25
Use precise language					
Estabsh/maintain formal style					
Provide concluding statement					
Write narratives				28	
Engage and orient the reader					
Use narrative techniques					
Use transition wds/phrases					
Use precise wds/phrases					
Provide a conclusion					
<b>110 Prod &amp; Distrib Writing</b>					
Produce clear/coherent writing				13, 16	13, 16
Develop and strengthen writing				9	9
Use tech to produce writing					
<b>111 Resrch to Bld&amp;Pres Knowledge</b>					
Conduct short research projcts					
Gather relevant information				14, 15	14, 15
Apply G6 Rdng stds to lit					
Apply G6 Rdng stds to info txt					

## LEVEL 16

Note: Item numbers in boldface type are classified to more than one objective and/or subskill.

Mathematics	Item Numbers				
	Complete Battery	Survey	Multiple Assessments	TNCC Form 1	TNCC Form 2
<b>10 Number and Number Relations</b>					
counting					36C
compare, order	16, 22	13	13	13	13, 36A
equivalent forms	48				
ratio, proportion	8	8	<b>8, 34</b>	8, 36A	8, 35
percent	14				
number line	17, 31				
number sense				34	
number properties	23	12	12	12	12
factors, multiples, divisibility	9				
prime, composite numbers	1	2	2	2	2
absolute value					36B
<b>11 Computation and Numerical Estimation</b>					
computation	3, 10	6	6	6	6
computation in context	2, 6, 13, 34	4, 5, 21	4, 5, 21	4, 5, 21	4, 5, 21
estimation	7, 43, 52	7, 17, 26	7, 17, 26	7, 17, 26	7, 17, 26
computation with money	12	9	9	9	9
recognize when to estimate	40	29	29	29	29
determine reasonableness	21		<b>41</b>		
estimation with money	11				
<b>12 Operation Concepts</b>					
order of operations	24	14	14	14	14
permutations, combinations	46, 53				
<b>13 Measurement</b>					
appropriate unit	37	31	31	31	31
estimate	28				
area	54	19	19	19, 33	19, 34
angle measure	19				
rate	35			36B, 36D, 36E	33
scale drawing, map, model	15, 33	10, 22	10, 22, <b>40</b>	10, 22	10, 22
<b>14 Geometry and Spatial Sense</b>					
angles	18	11	11	11	11
parts of circle	49				
coordinate geometry	29, 39	28	28	28, 36C	28
congruence, similarity			<b>36</b>		
transformations			<b>33</b>		
visualization, spatial reasoning	36	30	30, <b>42</b>	30	30
apply geometric properties	44	23	23	23	23
<b>15 Data Analysis, Statistics and Probability</b>					
read line graph	41	24	24	24	24
read circle graph	32	20	20	20	20
interpret data display	26, 27, 42	25	25	25	25
complete/construct data display				32, 35	36D
make inferences from data	25	16	16, <b>32</b>	16	16
statistics			<b>35</b>		
use data to solve problems	51				
describe, evaluate data					36E, 36F, 36G

## LEVEL 16

Note: Item numbers in boldface type are classified to more than one objective and/or subskill.

Mathematics	Item Numbers					
	Objectives subskills	Complete Battery	Survey	Multiple Assessments	TNCC Form 1	TNCC Form 2
<b>16 Patterns, Functions, Algebra</b>						
number pattern	4	1	1	1	1, 32	
function	47	18	18	18	18	
rules			<b>37</b>			
inequality			<b>39</b>			
solve linear equation	5, 38	3, 27	3, 27, <b>38</b>	3, 27	3, 27	
model problem situation	50					
<b>17 Problem Solving and Reasoning</b>						
develop, explain strategy	30, 55		<b>35, 38</b>			
evaluate solution	20					
deductive/inductive reasoning	45, 56	15	15	15	15	
spatial reasoning			<b>33, 42</b>			
proportional reasoning			<b>34, 36, 40</b>			
<b>18 Communication</b>						
explain thinking			<b>32, 37, 41</b>			
explain solution process			<b>39</b>			
<b>Mathematics Common Core</b>						
<b>120 Geometry</b>						
Find area by decomposing				33	34	
Find vol prism (frac val's)						
Draw/meas figs using ord pairs						
Use nets-rep/find area 3D figs				30	30	
<b>121 Expressions/Equations</b>						
Write/evaluate num expression						
Write algebraic expression						
Interpret parts-alg expression						
Evaluate algebraic expression						
Create equiv alg expression				14	14	
Identify equiv alg expressions						
Understand solving eqt'n/ineq						
Model situation w/algebra exp						
Write/solve one-step equation				27	27	
Model situation w/inequality						
Model situation w/2-var eqt'n						
<b>122 Ratios/Proportional Rel</b>						
Know ratio-concept/language						
Understand unit rate/language					33	
Solve probs-equivalent ratios				36A, 36C	32, 35	
Solve unit rate problems				36B, 36E		
Solve percent problems						
Convert meas units w/ratios				36D		
<b>123 Statistics/Probability</b>						
Know stat question=variability						
Understand data distribution						
Know meas-center/variability						
Display data on number line				32, 35	36D	
Number observations-data set					36C	
Describe attribute-data set						
Find meas-center/variability				16, 25	16, 25, 36E, 36F, 36G	
Rel meas-cent/var w/dist shape						

## LEVEL 16

Mathematics Common Core	Item Numbers				
	Complete Battery	Survey	Multiple Assessments	TNCC Form 1	TNCC Form 2
<b>124 The Number System</b>					
Divide fractions/solve probs					
Divide multi-digit numbers					
Compute w/multi-digit decimals				9	9
Find GCF/LCM; use dist prop					
Understand use-pos/neg numbers					36B
Understand opp signs-rat num				34	
Signs-ord pair rel to quadrant					
Graph rat numbers-single/pair				28	28
Position-rationals-num line					
Write/interp/exp order-rat num					36A
Understand abs value-rat num					
Distinguish abs value/order					
Solve prob-graphing ord pairs					
<b>126 Make sense/persevere</b>				4, 15, 19, 33, 36A	4, 15, 19, 33, 34
<b>127 Reason abstract/quant</b>				2, 7, 8, 12, 13, 17, 24, 25, 26, 29, 31	2, 7, 8, 12, 13, 17, 24, 25, 26, 29, 31, 36A
<b>128 Arguments/critique</b>				16, 23	16, 23, 35, 36B, 36E, 36G
<b>129 Model with mathematics</b>				28, 30, 32, 34, 35, 36B, 36C, 36D	28, 30, 32
<b>130 Use appropriate tools</b>				10, 22	10, 22, 36D
<b>131 Attend to precision</b>				3, 5, 6, 9, 11, 14, 18, 20, 21, 27, 36E	3, 5, 6, 9, 11, 14, 18, 20, 21, 27, 36C, 36F
<b>132 Look for/use of structure</b>				1	1
<b>133 Look for/exp rep reason</b>					
<b>Science</b>					
<b>19 Science Inquiry</b>					
data interpretation	1, 8, 25, 30	6, 17, 23	6, 17, 23, 28		6, 17, 23, 28
methods and design	7, 11, 18, 26, 40	9, 21, 25	9, 21, 25, 30		9, 21, 25, 30
<b>20 Physical Science</b>					
energy	4, 16, 31	2, 13	2, 13		2, 13
motions and forces	33				
structure and properties of matter	22, 35, 36	20, 24	20, 24, 29, 35		20, 24, 29, 35
<b>21 Life Science</b>					
cells and energy	23, 38	18	18		18
ecology	17, 21	12, 16	12, 16		12, 16
habitat and adaptation	10	11	11		11
life cycles	39				
organ systems	15, 28	22	22, 34		22, 34
taxonomy	2	1	1, 36		1, 36
<b>22 Earth and Space Science</b>					
Earth-moon systems	14, 19	14	14		14
rock dynamics	32		33		33
weather, atmosphere and climate	13, 24	8, 19	8, 19		8, 19
water dynamics	9, 12	5, 10	5, 10, 32		5, 10, 32
<b>23 Science and Technology</b>					
design of technology	3, 6, 27	3, 7	3, 7		3, 7
science and technology	37				
use of technology			27		27

## LEVEL 16

Science	Item Numbers					
	Objectives subskills	Complete Battery	Survey	Multiple Assessments	TNCC Form 1	TNCC Form 2
<b>24 Personal and Social Perspectives in Science</b>						
environment	29			31		31
health	34			26		26
resources	5	4		4		4
technology and society	20	15		15		15
<b>Social Studies</b>						
<b>26 Geographic Perspectives</b>						
the world in spatial terms	9, 12, 15, 24, 25	9, 12, 22, 23		9, 12, 22, 23, 36		9, 12, 22, 23, 36
places and regions	1, 2, 3, 4	1, 2, 3		1, 2, 3, 30		1, 2, 3, 30
human systems	13	10		10		10
environment and society				33		33
<b>27 Historical and Cultural Perspectives</b>						
cultures, cultural diversity	6, 36	4		4, 28, 29		4, 28, 29
people, places, events	5, 21, 22, 23, 37	6, 18, 19		6, 18, 19, 37		6, 18, 19, 37
time, continuity, change	7, 26, 27, 31	5, 24, 25		5, 24, 25		5, 24, 25
historical research	32					
<b>28 Civics and Government Perspectives</b>						
purposes of government	8, 33	13		13		13
democratic values and principles	28					
government processes and structures	30	21		21		21
the role of the citizen	16, 29	20		20, 31, 32		20, 31, 32
world affairs	10, 34, 35	7		7		7
<b>29 Economic Perspectives</b>						
production, distribution, consumption	11, 14, 18, 39, 40	8, 11, 15		8, 11, 15, 26, 34		8, 11, 15, 26, 34
economic institutions and systems	17, 20	14, 17		14, 17, 27		14, 17, 27
global connections, interdependence	19, 38	16		16, 35		16, 35

## LEVEL 17

Reading	Item Numbers					
	Objectives subskills	Complete Battery	Survey	Multiple Assessments	TNCC Form 1	TNCC Form 2
<b>02 Basic Understanding</b>						
initial understanding	1	1	1	1	1, 18, 20	
stated information	2, 16, 27, 40	2, 14	2, 14	2, 14	2, 14	
stated information graphics				41	19	
sequence	31	23	26	29	29	
vocabulary	20, 21, 35, 44	27, 31	30, 34	33, 37	33, 37	
<b>03 Analyze Text</b>						
main idea/theme	32, 39	24	27	30	30	
cause/effect					41	
conclusions	4	4	4	4	4	
story elements/character	17, 41	15	15	15, 18	15	
story elements/setting				40		
supporting evidence				20		
literary techniques	26, 42	19	20, 22, 38	25	25	
persuasive techniques	19	17	17	17	17	
nonfiction elements	28, 29	20, 21	23, 24	26, 27	26, 27	
<b>04 Evaluate/Extend Meaning</b>						
fact/opinion	9	9	9	9	9	
author/tone	5	5	5	5	5	
critical assessment	3, 34	3, 26	3, 29	3, 19, 32	3, 32	
predict/hypothesize			19, 39			
extend/apply meaning	6, 30	6, 22	6, 25	6, 22, 28	6, 28	
<b>05 Reading and Writing Strategies</b>						
summarize	11, 25	10, 18	10, 21, 37	10, 24	10, 24	
apply genre criteria	18, 23, 43	16	16	16	16	
vocabulary strategies	15, 37, 45, 46	29, 32, 33	32, 35, 36	35, 38, 39	35, 38, 39	
graphic strategies	13	12	12	12	12	
make connections	22					
synthesize across texts			18	21, 23	21, 22, 23	
utilize structure	12, 14, 33	11, 13, 25	11, 13, 28	11, 13, 31	11, 13, 31, 40	
research resources	7, 8, 10, 36, 38	7, 8, 28, 30	7, 8, 31, 33	7, 8, 34, 36	7, 8, 34, 36	
writing process	24					
<b>Reading Common Core</b>						
<b>104 Key Ideas &amp; Details</b>						
Cite txt evid to supp analysis				1, 2, 19, 20, 22	1, 2	
Det theme/centr idea/summary						
Analyze how elements interact						
Cite txt evid to supp analysis				14, 27	14, 27	
Determ 2+ centr ideas/summary				10, 24, 30	10, 24, 30	
Anlyze actions-indiv/evnt/idea				41		
<b>105 Craft &amp; Structure</b>						
Determ meaning of wds/phrases						
Analyze drama/poem structure						
Analyze how auth dev/contr pov				18		
Determ meaning of wds/phrases				25, 33, 35	25, 33, 35	
Anlyze struct used to organize				31, 40	31	
Determine author pov/purpose						

## LEVEL 17

Reading Common Core	Item Numbers				
	Complete Battery	Survey	Multiple Assessments	TNCC Form 1	TNCC Form 2
<b>106 Integ Knowledge &amp; Ideas</b>					
Compare txt to audio/film/stage				21, 23	
Comp fict portrayl w/hist acct					
Comp txt to audio/video/media					
Trace/eval argument/claims				17	17
Analyze 2+ authors-same topic					
<b>107 Reading Literature Text</b>				1, 2, 18, 19, 20, 21, 22, 23	1, 2
<b>108 Reading Inform Text</b>				10, 14, 17, 24, 25, 27, 30, 31, 33, 35, 40, 41	10, 14, 17, 18, 19, 20, 21, 22, 23, 24, 25, 27, 30, 31, 33, 35, 40, 41
<b>Language</b>					
<b>07 Sentence Structure</b>					
complete/fragment/run-on	6, 34	6	6	6	6
sentence combining	10, 11, 19, 22, 24, 26	9, 10, 17, 20, 22, 24	9, 10, 17, 20, 22, 24	9, 10, 17, 20, 22, 24	9, 10, 17, 20, 22, 24
misplaced modifier	3, 4, 7, 9	3, 4, 7	3, 4, 7	3, 4, 7	3, 4, 7
<b>08 Writing Strategies</b>					
topic sentence	13, 20	12, 18	12, 18	12, 18	12, 18
relevance	12, 14, 17, 23	11, 15, 21	11, 15, 21	11, 15, 21	11, 15, 21
supporting sentences	15, 28, 32	13, 26	13, 26	13, 26	13, 26
connective/transitional words	27	25	25	25	25
organize information	16, 29	14, 27	14, 27	14, 27	14, 27
writing strategies			29	28	28
<b>09 Editing Skills</b>					
usage	1, 2, 5, 8, 18, 21, 25, 30, 31, 33	1, 2, 5, 8, 16, 19, 23	1, 2, 5, 8, 16, 19, 23	1, 2, 5, 8, 16, 19, 23	1, 2, 5, 8, 16, 19, 23
proofreading			28, 30		
<b>Language Common Core</b>					
<b>101 Conven of Stand English</b>					
Dem command of grammar/usage				1, 2, 5, 6, 8, 19, 23, 28	1, 2, 5, 6, 8, 19, 23, 28
Expl funct of phrases/clauses					
Choose among sentence types					
Place phrs/clause within sent				3, 4, 7	3, 4, 7
Dem command of cap/punc/spllng				28	28
Use comma to sep coord adjs					
Spell correctly					
<b>102 Knowledge of Language</b>					
Use knowl of lang/conventions				9, 17, 22, 24, 28	9, 17, 22, 24, 28
Choose lang-expresses ideas					
<b>103 Vocab Acquisition &amp; Use</b>					
Det/clarify mng-multi mng wds				28	28
Use context as a clue to mng					
Use Greek/Latin roots as clues					
Consult reference materials					
Verify determin of wd/phrs mng					
Dem undrstdng-fig lang/wd rel				28	28
Interpret figures of speech					
Use relationship between words					
Disting among connotatn of wds					

## LEVEL 17

Language Common Core	Item Numbers				
	Complete Battery	Survey	Multiple Assessments	TNCC Form 1	TNCC Form 2
<b>109 Text Types &amp; Purposes</b>					
Write arguments				28	
Introduce claims					
Support claims					
Use wds/phrs/clause to clarify					
Establish/maintain formal style					
Provide concluding statement					
Write informatve/explantry txts					
Introduce a topic				12	12
Develop the topic				13	13
Use appropriate transitions					
Use precise language					
Establish/maintain formal style					
Provide concluding statement					
Write narratives					28
Engage and orient the reader				18	18
Use narrative techniques				26	26
Use transition wds/phrases				10, 20, 25	10, 20, 25
Use precise wds/phrases					
Provide a conclusion					
<b>110 Prod &amp; Distrib Writing</b>					
Produce clear/coherent writing				14, 27	14, 27
Develop and strengthen writing				11, 15, 21	11, 15, 21
Use tech to produce writing					
<b>111 Resrch to Bld&amp;Pres Knowledge</b>					
Conduct short research projects					
Gather relevant information					
Apply G7 Rdng stds to lit					
Apply G7 Rdng stds to info txt					
<b>Mathematics</b>					
<b>10 Number and Number Relations</b>					
equivalent forms	10, 53	9	9	9	9
ratio, proportion	26, 48	22	22	22	22, 35
exponents, scientific notation	2	2	2	2	2
number line	12				
factors, multiples, divisibility	11, 17	14	14	14	14
sets, models	23, 28	20	20	20	20
<b>11 Computation and Numerical Estimation</b>					
computation	3, 5, 9	4, 7	4, 7	4, 7	4, 7
computation in context	4, 7, 8, 21	3, 6, 8, 18	3, 6, 8, 18	3, 6, 8, 18	3, 6, 8, 18
estimation	1	1	1	1	1
recognize when to estimate	18, 40	15	15	15	15
<b>12 Operation Concepts</b>					
model problem situation	46				33
order of operations	6	5	5	5	5

## LEVEL 17

Note: Item numbers in boldface type are classified to more than one objective and/or subskill.

Mathematics	Item Numbers					
	Objectives subskills	Complete Battery	Survey	Multiple Assessments	TNCC Form 1	TNCC Form 2
<b>13 Measurement</b>						
time	39					
perimeter	42			<b>41</b>		
area	22	19	19	19	19	19
volume, capacity	25	21	21	21	21	21
rate	24, 32	29	29	29	29	29
scale drawing, map, model	38	25	25, <b>37</b>	25	25	25
convert measurement units	47					
<b>14 Geometry and Spatial Sense</b>						
angles	36	23	23	23	23	23
triangles				<b>39</b>		36
parts of circle	37	31	31	31	31	31
coordinate geometry				<b>36</b>		
congruence, similarity	43			<b>34</b>		
use geometric models to solve problems	15	12	12	12	12	12
apply geometric properties	19, 45	16	16	16, 35	16	16
<b>15 Data Analysis, Statistics and Probability</b>						
read line graph	30	27	27	27	27	27
interpret data display	14, 41, 57	11	11	11	11	11
draw conclusions from data	29, 50	26	26	26, 34	26, 37C	26, 37C
statistics				<b>42</b>		
probability	35, 54	32	32, <b>38</b>	32, 37A, 37B, 37C	32, 34, 37B	32, 34, 37B
use data to solve problems	13, 56	10	10	10	10	10
describe, evaluate data				<b>35</b>		
complete/construct data display						37A
<b>16 Patterns, Functions, Algebra</b>						
number pattern	33	30	30	30	30	30
function	27	24	24, <b>40</b>	24	24	24
expression	20	17	17	17	17	17
model problem situation					33, 36	
inequality	51					
solve linear equation				<b>33</b>		
use algebra to solve problems	52					
equation	31, 55	28	28	28	28	28
<b>17 Problem Solving and Reasoning</b>						
develop, explain strategy	34			<b>33, 37, 42</b>		
generalize solution				<b>40</b>		
deductive/inductive reasoning	16, 44	13	13	13	13	13
proportional reasoning	49			<b>34</b>		
<b>18 Communication</b>						
model math situations				<b>35</b>		
make conjectures				<b>39</b>		
explain thinking				<b>36</b>		
explain solution process				<b>38, 41</b>		

## LEVEL 17

Mathematics Common Core	Item Numbers				
	Complete Battery	Survey	Multiple Assessments	TNCC Form 1	TNCC Form 2
<b>120 Geometry</b>					
Solve problems w/scale				22, 25	22, 25
Draw geo figs given conditions					36
Describe cross-section 3D figs					
Find area/circum-circle					
Solve mult-step angle problems				23, 35	23
Solve area/vol/surf area probs				19, 21	19, 21
<b>121 Expressions/Equations</b>					
Add/sub/factor/expand alg exp					
Interp/rewrite alg expression					
Solve probs-rational numbers				5, 6, 10	5, 6, 10, 33
Solve mult-step eqtn-word prob				28	28
Solve mult-step ineq-word prob				36	
<b>122 Ratios/Proportional Rel</b>					
Find unit rates from fractions					
Decide 2 quant=proportion rel					
Find constant-proportionality					35
Rep proportion rel w/equation					
Exp pt on graph-proportion rel				24, 33	24
Solve multistep ratio/pct prob				29	29
<b>123 Statistics/Probability</b>					
Use sampling-answer questions					
Use sample data-draw inference					
Assess overlap-two data sets					
Compare data sets-center/var					
Understand probability $0 < p < 1$				37A	
Find probability-collect data				34, 37B	
Find probability-eq outcomes				32	32
Find probability-data freq				37C	34
Understand prob compound event					37B
Represent sample spaces					37A, 37C
Use simulation-compound event					
<b>124 The Number System</b>					
Describe opp quantities=zero					
Understand sum-rational num					
Understand diff-rational num					
Use op props-add/sub rat num				4	4
Interp product-rational nums					
Divide integers					
Mult/div rational numbers				7	7
Convert rational num-decimal					
Solve probs w/rational numbers				3, 8, 9, 18	3, 8, 9, 18
<b>126 Make sense/persevere</b>				10, 13, 22, 29, 35	10, 13, 22, 29
<b>127 Reason abstract/quant</b>				1, 6, 11, 12, 14, 15, 16, 24, 27, 32, 37A	1, 6, 11, 12, 14, 15, 16, 24, 27, 32
<b>128 Arguments/critique</b>				20, 23, 26, 33, 34, 37B, 37C	20, 23, 26, 34, 37C
<b>129 Model with mathematics</b>				31, 36	31, 33, 36, 37A
<b>130 Use appropriate tools</b>				25	25
<b>131 Attend to precision</b>				2, 3, 4, 5, 7, 8, 17, 18, 19, 21, 28	2, 3, 4, 5, 7, 8, 17, 18, 19, 21, 28, 35, 37B
<b>132 Look for/use of structure</b>				9, 30	9, 30
<b>133 Look for/exp rep reason</b>					

**LEVEL 17**

Science	Item Numbers					
	Objectives subskills	Complete Battery	Survey	Multiple Assessments	TNCC Form 1	TNCC Form 2
<b>19 Science Inquiry</b>						
data interpretation	4, 6, 12, 15, 16, 27	3, 9, 12, 13	3, 9, 12, 13, 34		3, 9, 12, 13, 34	
methods and design	8, 9, 34, 39	6, 25	6, 25		6, 25	
<b>20 Physical Science</b>						
energy	5, 13, 24	4, 10, 19	4, 10, 19		4, 10, 19	
motions and forces	11, 28	8	8, 33		8, 33	
structure and properties of matter	23		35		35	
<b>21 Life Science</b>						
cells and energy	18, 40	15	15		15	
ecology	25	20	20, 28		20, 28	
habitat and adaptation	3	2	2		2	
life cycles	10, 14, 36	7, 11	7, 11		7, 11	
taxonomy	29, 30					
<b>22 Earth and Space Science</b>						
Earth-moon systems	19, 31					
rock dynamics	2, 32	1, 22	1, 22, 31		1, 22, 31	
solar system	17, 20	14, 16	14, 16		14, 16	
weather, atmosphere & climate			29		29	
water dynamics	37		32		32	
<b>23 Science and Technology</b>						
careers	26	21	21		21	
design of technology	21, 38	17, 24	17, 24		17, 24	
science and technology	22		27		27	
<b>24 Personal and Social Perspectives in Science</b>						
environment	7, 33	5	5, 30		5, 30	
health	1	18	18, 26		18, 26	
resources	35	23	23		23	

**LEVEL 17**

Social Studies	Item Numbers					
	Objectives subskills	Complete Battery	Survey	Multiple Assessments	TNCC Form 1	TNCC Form 2
<b>26 Geographic Perspectives</b>						
the world in spatial terms	9, 12, 23, 29	7, 17	7, 17, 33		7, 17, 33	
places and regions	6, 10, 30	5, 8	5, 8, 26, 27		5, 8, 26, 27	
human systems	24, 26	18	18		18	
environment and society	5, 16, 25	4, 19	4, 19		4, 19	
<b>27 Historical and Cultural Perspectives</b>						
cultures, cultural diversity	11, 17, 18, 40	9, 13, 14	9, 13, 14, 35		9, 13, 14, 35	
people, places, events	1, 3, 19, 28, 33	1, 3, 15	1, 3, 15		1, 3, 15	
time, continuity, change	2, 4, 13, 14, 15	2, 10, 11, 12	2, 10, 11, 12, 31		2, 10, 11, 12, 31	
historical research	39		32		32	
<b>28 Civics and Government Perspectives</b>						
purposes of government			30		30	
democratic values and principles	31, 32, 36, 37	24, 25	24, 25		24, 25	
government processes and structures	21	20	20		20	
the role of the citizen	22	21	21		21	
world affairs	38		34		34	
<b>29 Economic Perspectives</b>						
production, distribution, consumption	8, 34, 35	22, 23	22, 23, 28, 29		22, 23, 28, 29	
global connections, interdependence	7, 20, 27	6, 16	6, 16		6, 16	

## LEVEL 18

Reading	Item Numbers					
	Objectives subskills	Complete Battery	Survey	Multiple Assessments	TNCC Form 1	TNCC Form 2
<b>02 Basic Understanding</b>						
initial understanding	1	1	1	1	1	
stated information	7, 8	7, 8	7, 8	7, 8	7, 8	
sequence	2, 33	2, 20	2, 23	2, 25	2, 25	
vocabulary	39, 40, 41	26, 27, 28	29, 30, 31	31, 32, 33	31, 32, 33	
<b>03 Analyze Text</b>						
main idea/theme	6	6	6	6	6	
cause/effect	35	22	25	27, 40	27	
conclusions	25					
story elements/character	32	19	22	24	24	
story elements/plot	10, 13, 31, 36	10, 13, 18, 23	10, 13, 21, 26	10, 13, 23, 28	10, 13, 23, 28	
story elements/setting	18, 34	21	24	26	26	
supporting evidence	24			19, 39	39	
literary techniques	12, 43, 45	12, 30, 32	12, 33, 35	12, 35, 37	12, 35, 37	
persuasive techniques	14, 19	14	14, 39	14	14	
nonfiction elements	26				18	
<b>04 Evaluate/Extend Meaning</b>						
fact/opinion	21, 27					
generalize	42	29	32	34	19, 34	
author/purpose	4, 11	4, 11	4, 11	4, 11	4, 11, 40	
author/pov/bias	30, 44	31	34	36	36	
critical assessment				18	20	
author/tone	28		37		21	
predict/hypothesize	29		38			
extend/apply meaning			18			
<b>05 Reading and Writing Strategies</b>						
summarize	5	5	5	5	5	
apply genre criteria	9, 15	9, 15	9, 15	9, 15	9, 15	
vocabulary strategies	3, 16, 46	3, 33	3, 36	3, 38	3, 38	
graphic strategies				20, 21		
make connections	37	24	27	29	29	
synthesize across texts	38	25	19, 20, 28	22, 30	22, 30	
utilize structure	23					
reading strategies	22	16	16	16	16	
research resources	17	17	17	17	17	
writing process	20					

## LEVEL 18

Reading Common Core Objectives subskills	Item Numbers				
	Complete Battery	Survey	Multiple Assessments	TNCC Form 1	TNCC Form 2
<b>104 Key Ideas &amp; Details</b>					
Cite txt that supprts analysis					19
Det theme/cent idea/summary				34, 39	22, 34
Analyze dialogue/incidents				10, 13, 27, 40	10, 13, 18, 27
Cite txt that supprts analysis				7, 8, 18, 20, 22	7, 8
Determine central idea/summary				5, 6	5, 6
Anlyze how txt makes conctns				21	
<b>105 Craft &amp; Structure</b>					
Determ meaning of wds/phrases				11, 12, 35, 37	11, 12, 21, 35, 37
Compare struct of 2+ texts					20
Analyze differences in povs					
Determ meaning of wds/phrases				14	14
Analyze struct of para in text					
Determine author pov/purpose				4	4
<b>106 Integ Knowledge &amp; Ideas</b>					
Analyze filmed/live production					
Anlyze how modern fic draws on					
Eval adv/disadv-diff mediums					40
Delin/eval argument/claims				19	39
Anlyze 2+ txts w/conflictng inf					
<b>107 Reading Literature Text</b>				8, 10, 11, 12, 13, 14, 27, 34, 35, 37, 39, 40	8, 10, 11, 12, 13, 14, 18, 19, 20, 21, 22, 27, 34, 35, 37
<b>108 Reading Inform Text</b>				4, 5, 6, 7, 18, 19, 20, 21, 22	4, 5, 6, 7, 39, 40
<b>Language</b>					
<b>07 Sentence Structure</b>					
complete/fragment/run-on	29, 32	27	27	27	27
sentence combining	7, 8, 19, 23, 30	6, 7, 17, 21	6, 7, 17, 21	6, 7, 17, 21	6, 7, 17, 21
misplaced modifier	20, 27, 33	18, 25	18, 25	18, 25	18, 25
nonparallel structure	24	22	22	22	22
<b>08 Writing Strategies</b>					
topic sentence	9, 11, 13, 14	8, 10, 12, 13	8, 10, 12, 13	8, 10, 12, 13	8, 10, 12, 13
relevance	10, 12, 15	9, 11, 14	9, 11, 14	9, 11, 14	9, 11, 14
supporting sentences	22, 25	20, 23	20, 23	20, 23	20, 23
connective/transitional words	26	24	24	24	24
organize information	16	15	15, 30	15	15
writing strategies			29	28	28
topic selection/narrowing	17				
<b>09 Editing Skills</b>					
usage	1, 2, 3, 4, 5, 6, 18, 21, 31, 34	1, 2, 3, 4, 5, 16, 19	1, 2, 3, 4, 5, 16, 19	1, 2, 3, 4, 5, 16, 19	1, 2, 3, 4, 5, 16, 19
proofreading			28		
idiom/diction	28	26	26	26	26

## LEVEL 18

Language Common Core	Item Numbers					
	Objectives subskills	Complete Battery	Survey	Multiple Assessments	TNCC Form 1	TNCC Form 2
<b>101 Conven of Stand English</b>						
Dem command of grammar/usage					28	28
Expl function of verbals						
Form/use active/passive voice					2, 3, 16, 19	2, 3, 16, 19
Form/use verbs in diff mood						
Recog/crrct voice/mood shifts						
Dem command of cap/punc/spllng					28	28
Use punc to indicate pause/brk						
Use ellipsis to indicate omiss						
Spell correctly						
<b>102 Knowledge of Language</b>						
Use knowl of lang/conventions					28	28
Use verbs in voice and mood						
<b>103 Vocab Acquisition &amp; Use</b>						
Det/clarify mng-multi mng wds					23	23
Use context as clue to meaning						
Use Greek/Latin roots as clues						
Consult reference materials						
Verify determin of wd/phrs mng						
Dem undrstdng-fig lang/wd rel					28	28
Interpret figures of speech						
Use relationship between words						
Disting among connotatn of wds						
<b>109 Text Types &amp; Purposes</b>						
Write arguments						28
Introduce claims						
Support claims						
Use wds/phrs/clause to clarify						
Estabsh/maintain formal style						
Provide concluding statement						
Write informtve/explantry txts					28	
Introduce a topic					8, 10, 12, 13	8, 10, 12, 13
Develop the topic					9, 11, 23	9, 11, 23
Use appropriate transitions					6, 14, 17, 18, 24, 25	6, 14, 17, 18, 24, 25
Use precise language						
Estabsh/maintain formal style						
Provide concluding statement						
Write narratives						
Engage and orient the reader					20	20
Use narrative techniques						
Use transition wds/phrases						
Use precise wds/phrases						
Provide a conclusion						
<b>110 Prod &amp; Distrib Writing</b>						
Produce clear/coherent writing						
Develop and strengthen writing						
Use tech to produce writing						
<b>111 Resrch to Bld&amp;Pres Knowledge</b>						
Conduct short research projects						
Gather relevant information						
Apply G8 Rdng stds to lit						
Apply G8 Rdng stds to info txt						

## LEVEL 18

Note: Item numbers in boldface type are classified to more than one objective and/or subskill.

Mathematics	Item Numbers				
	Complete Battery	Survey	Multiple Assessments	TNCC Form 1	TNCC Form 2
<b>10 Number and Number Relations</b>					
compare, order	16				
equivalent forms	40				
ratio, proportion	29, 34	25	25	25	25
percent	30	23	23	23	23
roots, radicals	8				
absolute value	18	26	26	26	26
exponents, scientific notation	47				
number line	56				
factors, multiples, divisibility	19	28	28	28	28
expanded notation					36A, 36B
<b>11 Computation and Numerical Estimation</b>					
computation	3, 5	3, 4	3, 4	3, 4	3, 4
computation in context	1, 2, 4, 6, 11, 32	1, 2, 9, 24	1, 2, 9, 24	1, 2, 9, 24	1, 2, 9, 24
recognize when to estimate	7	5	5	5	5
<b>12 Operation Concepts</b>					
operation properties	48		<b>41</b>		
<b>13 Measurement</b>					
perimeter	41				
area	33	22	<b>22, 36</b>	22	22
mass, weight	9	7	7	7	7
volume, capacity	53				
angle measure	13	10	10	10	10
scale drawing, map, model	55				
convert measurement units	12	11	11	11	11
<b>14 Geometry and Spatial Sense</b>					
angles	38, 54	29, 30	29, 30	29, 30	29, 30
coordinate geometry	20	31	<b>31, 34</b>	31	31
congruence, similarity	35, 51				
transformations	52		<b>37</b>	34	34
Pythagorean theorem	15	8	8	8	8
<b>15 Data Analysis, Statistics and Probability</b>					
select data display	50				
interpret data display	22	15	<b>15, 39</b>	15	15
complete/construct data display	42			33	33
make inferences from data	25	18	18	18	18
draw conclusions from data	24	17	17	17	17
evaluate conclusions drawn from data			<b>33</b>		
sampling	10	6	6	6	6
statistics	44, 45		<b>38</b>		
probability	37				
use data to solve problems	43, 46				

## LEVEL 18

Note: Item numbers in boldface type are classified to more than one objective and/or subskill.

Mathematics	Item Numbers					
	Objectives subskills	Complete Battery	Survey	Multiple Assessments	TNCC Form 1	TNCC Form 2
<b>16 Patterns, Functions, Algebra</b>						
function	49				35	32, 35
expression	39	27		27	27	27
rules	31			<b>40</b>		
inequality	14					
solve linear equation	21	13		13, <b>35</b>	13	13
graph linear equation	36	14		14, <b>32</b>	14, 36B	14
model problem situation					32	
system of equations					36C	
use algebra to solve problems					36A	
equation	17	12		12	12	12, 36C
<b>17 Problem Solving and Reasoning</b>						
identify missing/extra information				<b>40, 41</b>		
formulate problem				<b>35</b>		
develop, explain strategy	26	21		21, <b>36, 38</b>	21	21
deductive/inductive reasoning	23, 28	16, 20		16, 20	16, 20	16, 20
proportional reasoning	27	19		19	19	19
<b>18 Communication</b>						
model math situations				<b>32, 34</b>		
relate models to ideas				<b>37, 39</b>		
evaluate ideas				<b>33</b>		
explain solution process					36D	
<b>Mathematics Common Core</b>						
<b>120 Geometry</b>						
Transformation of lines						
Transformation of angles						
Transformation-parallel lines						
Know transformation-congruency					34	
Transformations w/ord pairs						34
Know transformation-similarity						
Angles in geometric figures						
Explain Pythagorean Theorem						
Apply Pythagorean Theorem						
Pythagorean Them dist-coords					8	8
Volume-cone/cylinder/sphere						
<b>121 Expressions/Equations</b>						
Create equiv exponent express						
Find square/cube roots						
Use/apply scientific notation						36A
Compute w/scientific notation						36B
Graph proportion relationship					36A	
Explain constancy of slope						
Identify number sol-linear eq						
Solve linear equations					13	13
Understand sol sys linear eq's					36D	
Solve system linear equations					36B	36C
Solve probs-system linear eq's					36C	

## LEVEL 18

Mathematics Common Core	Item Numbers				
	Complete Battery	Survey	Multiple Assessments	TNCC Form 1	TNCC Form 2
<b>123 Statistics/Probability</b>					
Create/interpret scatter plot				33	
Fit/assess lines-scatter plots					
Use linear eq to solve prob					
Create/interp 2-way freq table					33
<b>124 The Number System</b>					
Understand irrational numbers					
Compare irrational numbers					
<b>125 Functions</b>					
Understand definition-function					
Compare functions-diff rep				14, 35	14, 32
Interpret linear equations					
Model linear rel w/function				32	35
Analyze/sketch graph-function					
<b>126 Make sense/persevere</b>				8, 11, 15, 16, 20, 21, 22, 24, 25	8, 11, 15, 16, 20, 21, 22, 24, 25
<b>127 Reason abstract/quant</b>				5, 6, 26, 28, 34, 35	5, 6, 26, 28, 33, 36B
<b>128 Arguments/critique</b>				17, 18, 36B, 36D	17, 18, 32
<b>129 Model with mathematics</b>				12, 14, 32, 33	12, 14, 35
<b>130 Use appropriate tools</b>				7, 19	7, 19
<b>131 Attend to precision</b>				1, 2, 3, 4, 9, 10, 13, 23, 27, 29, 30, 31, 36A, 36C	1, 2, 3, 4, 9, 10, 13, 23, 27, 29, 30, 31, 34, 36A, 36C
<b>132 Look for/use of structure</b>					
<b>133 Look for/exp rep reason</b>					
<b>Science</b>					
<b>19 Science Inquiry</b>					
data interpretation	1, 13, 14, 16, 18, 22, 26	1, 10, 11, 16	1, 10, 11, 16, 27		1, 10, 11, 16, 27
methods and design	12	9	9, 30		9, 30
<b>20 Physical Science</b>					
energy	4, 36	6, 23	6, 23		6, 23
motions and forces	5, 8	8	8, 35		8, 35
structure & properties of matter	23, 38, 40	18, 22, 25	18, 22, 25, 29		18, 22, 25, 29
<b>21 Life Science</b>					
cells and energy	9				
ecology	3, 20	4	4		4
habitat and adaptation	29	20	20		20
heredity	15	14	14		14
life cycles	6, 39	7	7		7
organ systems	19	15	15, 33		15, 33
<b>22 Earth and Space Science</b>					
rock dynamics	11, 25	19	19, 28, 32		19, 28, 32
solar system	27, 35	21	21, 34		21, 34
weather, atmosphere and climate	33				
water dynamics	2, 37	2, 24	2, 24		2, 24
<b>23 Science and Technology</b>					
design of technology	10, 31, 34	3	3, 31		3, 31
science and technology	17	12	12, 26		12, 26
use of technology	28				
<b>24 Personal and Social Perspectives in Science</b>					
health	7, 21, 24	5, 13	5, 13		5, 13
resources	30, 32	17	17		17

**LEVEL 18**

Social Studies	Item Numbers				
	Complete Battery	Survey	Multiple Assessments	TNCC Form 1	TNCC Form 2
<b>26 Geographic Perspectives</b>					
the world in spatial terms	3, 5, 11, 33	2, 7, 8	2, 7, 8		2, 7, 8
places and regions	1, 10, 13	1, 11	1, 11		1, 11
human systems	7, 18	5, 17	5, 17, 31, 34		5, 17, 31, 34
environment and society			28, 35		28, 35
<b>27 Historical and Cultural Perspectives</b>					
cultures, cultural diversity	40	4	4		4
people, places, events	4, 19, 27, 39	3, 9, 25	3, 9, 25		3, 9, 25
time, continuity, change	6, 8, 9	6	6,		6,
historical research	14, 15, 16, 31, 32	12, 13, 14	12, 13, 14, 26, 29, 30		12, 13, 14, 26, 29, 30
<b>28 Civics and Government Perspectives</b>					
purposes of government	17	15	15		15
democratic values and principles	25				
government processes and structures	20, 21	18, 19	18, 19, 32, 33		18, 19, 32, 33
the role of the citizen	12, 26, 34	10	10		10
<b>29 Economic Perspectives</b>					
production, distribution, consumption	22, 23, 28, 29, 30, 35, 37	16, 20, 21, 22, 23, 24	16, 20, 21, 22, 23, 24		16, 20, 21, 22, 23, 24
economic institutions and systems	24, 36, 38		27		27
global connections, interdependence	2				

## LEVEL 19

Reading	Item Numbers			
	Objectives subskills	Complete Battery	Survey	Multiple Assessments
<b>02 Basic Understanding</b>				
initial understanding	6, 30	1, 24	1, 27	
sequence	23, 32	17, 26	20, 29	
vocabulary	2			
<b>03 Analyze Text</b>				
main idea/theme	17	11	11	
cause/effect	42			
conclusions	4, 9, 19	4, 13	4, 13	
compare/contrast			18	
story elements/plot	3			
story elements/setting	26, 45	20, 33	23, 36	
supporting evidence	24	18	21, 39	
literary techniques	38, 43, 44	31, 32	34, 35	
persuasive techniques	33	27	30	
<b>04 Evaluate/Extend Meaning</b>				
fact/opinion	46			
generalize	1, 11	5	5	
author/pov/bias	34	28	31	
author/tone	5, 12	6	6	
critical assessment	37		37	
predict/hypothesize	14, 25, 35	8, 19, 29	8, 22, 32	
extend/apply meaning	21	15	15, 38	
<b>05 Reading and Writing Strategies</b>				
apply genre criteria	13, 27, 40	7, 21	7, 24	
vocabulary strategies	7, 8, 28, 29, 31, 41	2, 3, 22, 23, 25	2, 3, 25, 26, 28	
graphic strategies	15, 18	9, 12	9, 12, 17	
formulate questions	16	10	10	
make connections	10, 22	16	16	
synthesize across texts			19	
utilize structure	20, 39	14	14	
reading strategies	36	30	33	

**LEVEL 19**

Language	Item Numbers			
	Objectives subskills	Complete Battery	Survey	Multiple Assessments
<b>07 Sentence Structure</b>				
complete/fragment/run-on	1, 21, 26	1, 20, 25	1, 20, 25	
sentence combining	5, 6, 7, 8, 15, 28, 30	5, 6, 7, 14, 27	5, 6, 7, 14, 27	
misplaced modifier	20, 22, 31	19, 21	19, 21	
<b>08 Writing Strategies</b>				
topic sentence	10, 11	9, 10	9, 10	
relevance	27	26	26	
supporting sentences	9, 18	8, 17	8, 17	
connective/transitional words	16, 24	15, 23	15, 23	
information sources	12, 34	11	11	
writing strategies	14	13	13, 30	
topic selection/narrowing	13	12	12	
<b>09 Editing Skills</b>				
usage	2, 3, 4, 17, 19, 23, 25, 29, 32, 33	2, 3, 4, 16, 18, 22, 24	2, 3, 4, 16, 18, 22, 24	
proofreading			28, 29	

## LEVEL 19

Note: Item numbers in boldface type are classified to more than one objective and/or subskill.

Mathematics	Item Numbers			
	Objectives subskills	Complete Battery	Survey	Multiple Assessments
<b>10 Number and Number Relations</b>				
ratio, proportion	45	10		10, <b>28</b>
roots, radicals	5			
absolute value	19	13		13
exponents, scientific notation	15	6		6
number systems	34			
number properties	33			
sets, models	13	5		5
<b>11 Computation and Numerical Estimation</b>				
computation	2, 4	2, 4		2, 4
computation in context	1	1		1
estimation	3, 6	3		3, <b>30</b>
recognize when to estimate	9			
<b>13 Measurement</b>				
area	35	23		23
mass, weight	21			
angle measure	41	22		22
rate	18			
scale drawing, map, model	30, 36	21		21, <b>34</b>
indirect measurement	24	11		11
<b>14 Geometry and Spatial Sense</b>				
triangles	38	20		20, <b>33</b>
congruence, similarity	29, 46	16		16
symmetry	25	15		15
visualization, spatial reasoning	14			
apply geometric properties	16	7		7
<b>15 Data Analysis, Statistics and Probability</b>				
read line graph	7			
interpret data display	43	24		24
make inferences from data	8			
draw conclusions from data	44	25		25, <b>32</b>
sampling	12, 40	19		19
statistics	26			
probability	28	14		14, <b>27</b>
<b>16 Patterns, Functions, Algebra</b>				
function				<b>26</b>
expression				<b>29</b>
inequality	22, 39	12		12
solve linear equation	17, 20	9		9
graph linear equation	37	18		18, <b>35</b>
graph quadratic equation	42			
model problem situation	10	8		8
system of equations	11			
use algebra to solve problems				<b>31</b>

## LEVEL 19

Note: Item numbers in boldface type are classified to more than one objective and/or subskill.

Mathematics	Item Numbers			
	Objectives subskills	Complete Battery	Survey	Multiple Assessments
<b>17 Problem Solving and Reasoning</b>				
formulate problem				<b>29</b>
develop, explain strategy				<b>31</b>
solve non-routine problem	23			
deductive/inductive reasoning	32			
proportional reasoning	27		17	<b>17, 34</b>
model problem situation, solution	31			<b>26</b>
<b>18 Communication</b>				
model math situations				<b>35</b>
explain thinking				<b>27, 30</b>
explain solution process				<b>28, 32, 33</b>

**LEVEL 19**

Science	Item Numbers			
	Objectives subskills	Complete Battery	Survey	Multiple Assessments
<b>19 Science Inquiry</b>				
data interpretation	3, 6, 30		4, 5	4, 5
methods and design	14, 16, 22, 34, 36		12, 14, 21, 24	12, 14, 21, 24, 34
<b>20 Physical Science</b>				
energy	27, 35, 37		18, 25	18, 25, 26, 33
motions and forces	19		17	17
structure & properties of matter	7, 28		7, 16	7, 16
<b>21 Life Science</b>				
cells and energy	26, 32		19	19, 29
habitat and adaptation	13		11	11, 28
heredity	9, 21		9	9
organ systems	23, 29		13, 15	13, 15
<b>22 Earth and Space Science</b>				
Earth-moon systems	11, 38		6, 23	6, 23, 31
rock dynamics				30
solar system	20, 31		22	22
weather, atmosphere and climate	10			
water dynamics	33		20	20
<b>23 Science and Technology</b>				
careers	12, 18		10	10, 27, 32
design of technology	2			
science and technology	5		2	2
use of technology	4		8	8
<b>24 Personal and Social Perspectives in Science</b>				
environment	15			
health	8, 25		3	3
resources	24			
<b>25 History and Nature of Science</b>				
contributor and contribution	17			
historical concepts	39			35
timelines	1, 40		1	1

## LEVEL 19

Social Studies	Item Numbers		
	Complete Battery	Survey	Multiple Assessments
<b>26 Geographic Perspectives</b>			
places and regions	19, 31, 32, 35	17	17, 26, 27
human systems	1, 2, 16, 17	1, 2, 13, 14	1, 2, 13, 14, 32
environment and society	3, 30, 38	3, 21	3, 21
<b>27 Historical and Cultural Perspectives</b>			
cultures, cultural diversity	14, 22, 34	20	20
people, places, events	4	4	4, 28
time, continuity, change	5, 11, 12, 13	5, 11, 12	5, 11, 12, 31
historical research	6, 7, 21	6, 7	6, 7, 29
<b>28 Civics and Government Perspectives</b>			
purposes of government	9	9	9
democratic values and principles	8, 10, 18, 25	8, 10, 16, 23	8, 10, 16, 23, 30
government processes and structures	23, 29	19	19
the role of the citizen			36
world affairs	15, 20	18	18
<b>29 Economic Perspectives</b>			
production, distribution, consumption	26, 27, 28, 36, 37, 39	15, 24, 25	15, 24, 25, 33, 34, 35
economic institutions and systems	40		
global connections, interdependence	24, 33	22	22

**LEVEL 19**

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**LEVEL 20**

Reading	Item Numbers			
	Objectives subskills	Complete Battery	Survey	Multiple Assessments
<b>02 Basic Understanding</b>				
initial understanding	29	17	20	
stated information	22, 42	29	32	
stated information graphics	28			
vocabulary	2, 9, 15, 40	2, 9, 15, 27	2, 9, 15, 30	
<b>03 Analyze Text</b>				
main idea/theme	1, 17	1	1	
cause/effect	25, 31	19	22	
conclusions	33	21	24	
compare/contrast	19			
story elements/setting	3, 4	3, 4	3, 4	
supporting evidence	21			
literary techniques	6, 32, 44	6, 20, 31	6, 23, 34, 39	
persuasive techniques			18	
nonfiction elements	10, 26, 35	10, 23	10, 26	
<b>04 Evaluate/Extend Meaning</b>				
fact/opinion	16, 39	16, 26	16, 29	
generalize	11	11	11	
author/purpose	13, 36, 45	13, 24, 32	13, 27, 35	
author/pov/bias	23, 24, 43, 46	30, 33	19, 33, 36	
critical assessment			17	
extend/apply meaning	5, 20, 27	5	5	
<b>05 Reading and Writing Strategies</b>				
summarize	8, 30	8, 18	8, 21	
apply genre criteria	38	25	28	
vocabulary strategies	18, 41	28	31	
graphic strategies	7	7	7	
make connections	12, 34	12, 22	12, 25	
synthesize across texts	14	14	14, 38	
utilize structure	37		37	

**LEVEL 20**

Language	Item Numbers		
	Complete Battery	Survey	Multiple Assessments
<b>07 Sentence Structure</b>			
complete/fragment/run-on	11, 17, 29	10, 16	10, 16
sentence combining	24	23	23
misplaced modifier	20, 23	19, 22	19, 22
nonparallel structure	10, 19, 31	9, 18	9, 18
verbosity/redundancy	3, 22	3, 21	3, 21
<b>08 Writing Strategies</b>			
topic sentence	4	4	4
relevance	5, 25, 32	5, 24	5, 24
supporting sentences	14, 21, 28	13, 20, 27	13, 20, 27
connective/transitional words	8, 15, 27, 34	7, 14, 26	7, 14, 26
information sources	6		
organize information	7	6	6
writing strategies			29, 30
<b>09 Editing Skills</b>			
usage	1, 2, 9, 12, 13, 18, 26, 30	1, 2, 8, 11, 12, 17, 25	1, 2, 8, 11, 12, 17, 25
proofreading			28
idiom/diction	16, 33	15	15

## LEVEL 20

Note: Item numbers in boldface type are classified to more than one objective and/or subskill.

Mathematics	Item Numbers			
	Objectives subskills	Complete Battery	Survey	Multiple Assessments
<b>10 Number and Number Relations</b>				
percent	22			
roots, radicals	3, 34	4, 8		4, 8
absolute value	17	11		11
exponents, scientific notation	10	10		10
factors, multiples, divisibility	41			
sets, models				<b>26</b>
<b>11 Computation and Numerical Estimation</b>				
computation	2, 4	3, 5		3, 5
computation in context	5, 8			
estimation	6	2		2
computation with money	1	1		1
<b>12 Operation Concepts</b>				
order of operations	7			
permutations, combinations				<b>31</b>
operation properties	15			
<b>13 Measurement</b>				
area	26			
volume, capacity				<b>33</b>
angle measure	18			
rate	28	20		20
scale drawing, map, model	14, 19	12, 16		12, 16, <b>28</b>
indirect measurement	16	13		13, <b>35</b>
<b>14 Geometry and Spatial Sense</b>				
congruence, similarity	43	22		22
transformations	36	18		18
apply geometric properties	13, 25, 27	14		14
Pythagorean theorem	29	19		19, <b>29</b>
<b>15 Data Analysis, Statistics and Probability</b>				
interpret data display	30	6		6
make inferences from data	32			
draw conclusions from data	31, 46	7, 25		7, 25
sampling	23			
statistics	45	24		24
probability	9			
use data to solve problems	33			
describe, evaluate data				<b>34</b>
<b>16 Patterns, Functions, Algebra</b>				
function	11, 38	9		9
expression	39			<b>30</b>
rules	44			
inequality	24	17		17
graph linear equation				<b>27</b>
solve quadratic equation	40	23		23
graph quadratic equation				<b>32</b>
model problem situation	21			
system of equations	35	21		21

**LEVEL 20**

Note: Item numbers in boldface type are classified to more than one objective and/or subskill.

Mathematics	Item Numbers			
	Objectives subskills	Complete Battery	Survey	Multiple Assessments
<b>17 Problem Solving and Reasoning</b>				
develop, explain strategy				<b>33</b>
solve non-routine problem				<b>29</b>
deductive/inductive reasoning	12, 37, 42	15		15
proportional reasoning	20			<b>28, 35</b>
model problem situation, solution				<b>30, 31</b>
<b>18 Communication</b>				
model math situations				<b>26, 27, 32</b>
explain thinking				<b>34</b>

**LEVEL 20**

Science	Item Numbers			
	Objectives subskills	Complete Battery	Survey	Multiple Assessments
<b>19 Science Inquiry</b>				
data interpretation	5, 16, 35			35
methods and design	2, 3, 4, 9, 10		2, 3, 6, 8, 10	2, 3, 6, 8, 10
<b>20 Physical Science</b>				
energy	29, 37		23, 25	23, 25
structure & properties of matter	25, 27, 38		20, 21	20, 21, 28
<b>21 Life Science</b>				
cells and energy	19, 28		18, 22	18, 22, 34
changes over time	7		7	7, 27
ecology	23			
habitat and adaptation				26
life cycles	12, 33		13	13, 32
organ systems	14, 40		9	9
<b>22 Earth and Space Science</b>				
the universe	31, 36		24	24, 33
rock dynamics	22		19	19, 30
solar system	6, 11		4, 12	4, 12
water dynamics	32			
<b>23 Science and Technology</b>				
careers	18		16	16
design of technology	1, 17, 26		1, 15, 17	1, 15, 17
science and technology	34			31
use of technology				29, 36
<b>24 Personal and Social Perspectives in Science</b>				
environment	30			
health	13		14	14
resources	39			
technology and society	8		5	5
<b>25 History and Nature of Science</b>				
contributor and contribution	24			
historical concepts	15, 21		11	11
nature of science	20			

**LEVEL 20**

Social Studies	Item Numbers			
	Objectives subskills	Complete Battery	Survey	Multiple Assessments
<b>26 Geographic Perspectives</b>				
the world in spatial terms	2, 22, 36	2, 19, 23	2, 19, 23	
places and regions	1, 4, 11, 12, 30, 31	1, 4, 11, 12	1, 4, 11, 12	
human systems	16, 17, 40		34, 35	
environment and society	32			
<b>27 Historical and Cultural Perspectives</b>				
cultures, cultural diversity	9, 10	9, 10	9, 10	
people, places, events	15, 33	14, 16	14, 16, 26, 27, 29	
time, continuity, change	25, 26, 27			
historical research	5, 34, 38	5, 17, 24	5, 17, 24	
<b>28 Civics and Government Perspectives</b>				
purposes of government	8	8	8, 33	
democratic values and principles	6, 37	6	6	
government processes and structures	13, 14, 28, 29	13, 22	13, 22	
the role of the citizen	7, 21	7, 25	7, 25	
world affairs			32	
<b>29 Economic Perspectives</b>				
production, distribution, consumption	24	21	21, 28	
economic institutions and systems	18, 23, 35	18, 20	18, 20, 30, 31, 36	
global connections, interdependence	3, 19, 20, 39	3, 15	3, 15	

**LEVEL 20**

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**LEVEL 21/22**

Reading Objectives subskills	Item Numbers		
	Complete Battery	Survey	Multiple Assessments
<b>02 Basic Understanding</b>			
initial understanding	1, 6, 19, 32	1, 6	1, 6
stated information	13	12	12
vocabulary	20, 37	24	27
<b>03 Analyze Text</b>			
main idea/theme	40	27	30
cause/effect	43	30	33
conclusions	7, 16, 33, 35, 44	7, 15, 31	7, 15, 34
compare/contrast			20
story elements/character	28, 31	20	23
story elements/setting	27	19	22
literary techniques	11, 14, 23, 34, 42	10, 13, 29	10, 13, 32
nonfiction elements	15	14	14
<b>04 Evaluate/Extend Meaning</b>			
fact/opinion	46	33	36
generalize	21		
author/purpose	2, 3, 5	2, 3, 5	2, 3, 5, 37
author/pov/bias	8, 41, 45	28, 32	31, 35
critical assessment	17, 39	16, 26	16, 29
predict/hypothesize	9	8	8
extend/apply meaning	10	9	9, 18
<b>05 Reading and Writing Strategies</b>			
summarize	22, 26, 36	18, 23	21, 26
apply genre criteria	18	17	17
vocabulary strategies	4, 12, 29, 30, 38	4, 11, 21, 22, 25	4, 11, 24, 25, 28
graphic strategies	24, 25		
synthesize across texts			19, 38, 39

**LEVEL 21/22**

Language	Item Numbers			
	Objectives subskills	Complete Battery	Survey	Multiple Assessments
<b>07 Sentence Structure</b>				
complete/fragment/run-on	13, 16, 29, 34	13, 16	13, 16	
sentence combining	1, 6, 9	1, 6, 9	1, 6, 9	
misplaced modifier	4, 11	4, 11	4, 11	
nonparallel structure	10, 19	10, 19	10, 19	
verbosity/redundancy	12, 28	12	12	
<b>08 Writing Strategies</b>				
topic sentence	2, 3	2, 3	2, 3	
relevance	18, 24, 32	18, 24	18, 24	
supporting sentences	21, 27	21, 27	21, 27	
connective/transitional words	14, 26, 31	14, 26	14, 26	
writing strategies			29, 30	
<b>09 Editing Skills</b>				
usage	5, 7, 8, 15, 17, 22, 25, 30	5, 7, 8, 15, 17, 22, 25	5, 7, 8, 15, 17, 22, 25	
proofreading			28	
idiom/diction	20, 23, 33	20, 23	20, 23	

**LEVEL 21/22**

Note: Item numbers in boldface type are classified to more than one objective and/or subskill.

Mathematics	Item Numbers			
	Objectives subskills	Complete Battery	Survey	Multiple Assessments
<b>10 Number and Number Relations</b>				
equivalent forms	32			
ratio, proportion	23			
percent	10			
absolute value	21			
exponents, scientific notation	39			<b>32</b>
factors, multiples, divisibility	25			<b>34</b>
<b>11 Computation and Numerical Estimation</b>				
computation	2, 3, 4	2, 3		2, 3
computation in context	1	1		1
estimation	5	4		4
<b>12 Operation Concepts</b>				
model problem situation				<b>26</b>
permutations, combinations	9			<b>29</b>
<b>13 Measurement</b>				
estimate	44	23		23
area	28			
volume, capacity	22	10		10
rate	14	14		14, <b>33, 35</b>
scale drawing, map, model	43	22		22
indirect measurement	29			
<b>14 Geometry and Spatial Sense</b>				
solid figure	46	25		25
coordinate geometry	40	19		19
parallel, perpendicular	35	17		17
congruence, similarity	20	8		8
Pythagorean theorem	26			<b>31</b>
<b>15 Data Analysis, Statistics and Probability</b>				
interpret data display	7	6		6
make inferences from data	19			<b>27</b>
draw conclusions from data	6	5		5
evaluate conclusions drawn from data	8	7		7
statistics	13, 34, 41	11		11
probability	31	18		18
use data to solve problems	17, 18			
<b>16 Patterns, Functions, Algebra</b>				
expression	27			
solve linear equation	38			
graph linear equation	37	21		21, <b>28</b>
solve quadratic equation	33	9		9
graph quadratic equation	24			
model problem situation	15	13		13
system of equations	30, 42			
use algebra to solve problems	16	12		12, <b>30</b>
<b>17 Problem Solving and Reasoning</b>				
develop, explain strategy				<b>26, 34</b>
solve non-routine problem	36	20		20, <b>31</b>
evaluate solution	12	15		15, <b>32</b>
deductive/inductive reasoning	45	24		24, <b>30</b>
proportional reasoning	11	16		16, <b>33, 35</b>
model problem situation, solution				<b>29</b>
<b>18 Communication</b>				
model math situations				<b>28</b>
explain thinking				<b>27</b>

**LEVEL 21/22**

Science	Item Numbers			
	Objectives subskills	Complete Battery	Survey	Multiple Assessments
<b>19 Science Inquiry</b>				
data interpretation	1, 12, 13	1, 7, 8	1, 7, 8, 35	
methods and design	9, 14, 17, 20, 33	4, 9, 12	4, 9, 12	
<b>20 Physical Science</b>				
motions and forces	21, 22, 23, 36	14, 15, 16	14, 15, 16, 29	
structure & properties of matter	30, 37	20, 24	20, 24, 32	
<b>21 Life Science</b>				
cells and energy	6, 7, 38	6, 25	6, 25	
changes over time	4		34	
heredity	29	17	17	
organ systems	16	11	11, 27	
taxonomy	31	19	19	
<b>22 Earth and Space Science</b>				
changes in the earth and sky	27	18	18	
Earth-moon systems			30	
rock dynamics	2, 19	2	2	
solar system	35			
weather, atmosphere and climate	11	21	21, 31	
water dynamics	15	10	10	
<b>23 Science and Technology</b>				
design of technology	24	23	23	
science and technology	3, 26	3	3	
use of technology	5, 10	5	5	
<b>24 Personal and Social Perspectives in Science</b>				
environment	32, 39			
health			26	
resources	8		33	
technology and society	18	22	22	
<b>25 History and Nature of Science</b>				
contributor and contribution	40			
nature of science	25		28	
science in ancient cultures	28	13	13	
timelines	34			

**LEVEL 21/22**

Social Studies	Item Numbers			
	Objectives subskills	Complete Battery	Survey	Multiple Assessments
<b>26 Geographic Perspectives</b>				
the world in spatial terms	15, 16, 26, 28	1, 2, 15	1, 2, 15	
places and regions	6, 27	16	16	
environment and society	30		32	
<b>27 Historical and Cultural Perspectives</b>				
cultures, cultural diversity	29, 39	22	22	
people, places, events	7, 9, 12, 13, 14, 34	5, 14, 21	5, 14, 21, 31, 35	
time, continuity, change	10, 17, 24, 37, 38, 40	7, 17, 18, 23, 24	7, 17, 18, 23, 24, 27	
<b>28 Civics and Government Perspectives</b>				
democratic values and principles	3, 5	3	3	
government processes and structures	4, 18, 19, 25, 31	4, 8, 25	4, 8, 25, 34	
world affairs	11, 32, 33	13, 19, 20	13, 19, 20, 30	
<b>29 Economic Perspectives</b>				
production, distribution, consumption			26, 33	
economic institutions and systems	1, 2, 8, 20, 21, 22, 23, 35, 36	6, 9, 10, 11, 12	6, 9, 10, 11, 12, 29	
global connections, interdependence			28	