



MATHEMATICS

SAMPLER

- **Aligned to CCSS**
- **Aligned to NTCM**
- **Word Problems & Drill Sheets**



GRADES 6-8

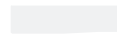
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NAME: _____



Activity One



1) The temperatures at Kits Beach for the last 9 days were as follows:

32°C, 28°C, 30°C, 29°C, 33°C, 32°C, 27°C, 34°C, 32°C
(90°F, 82°F, 86°F, 84°F, 91°F, 90°F, 81°F, 93°F, 90°F)

Answer the following questions.

a) What is the mean temperature?

b) What is the mode for the temperatures?

c) What is the median for the temperatures?

d) What is the range for the temperatures?

e) Is there an outlier?

f) What is the probability that the temperature will be over 30°C on the tenth day?

g) What inferences can you make about the data above?

h) Which graph or graphs would best represent the data?

NAME: _____



Activity Two

2a) Create groups of five. Each member of the team will shoot 10 shots each on a hockey net in the gym. Tally all the shots and the goals scored.

Shots on Goal	Goals Scored

b) Gather the data from all the groups and complete the chart below.

Team	Number of Goals Scored

c) Create a graph to represent the data from the chart showing all the teams goals in the space below.

d) What is the probability of each team increasing their score by ten with 20 more shots on the goal? Explain.



Activity Three

3a) William recorded the amount of time he spent doing chores each day in minutes for one week. Here are his results:

12, 9, 18, 3, 8, 14, 21

i) What is the mean and mode?

ii) What is the median and range?

b) Kyra tallied the number of songs she bought each week for her iPod. Here are her results:

5, 2, 4, 2, 7, 16, 3

i) What is the mean and mode?

ii) What is the median and range?

iii) Is there an outlier? If so, what is it?

iv) How does the outlier change the outcome of the mean, median, and mode?

c) What is a possible set of numbers if the mode is 6 and the median is 12?

d) Swimmers Danya and Lorna swam in five heats. These are their times.

Danya = 1.23, 1.18, 2.03, 1.53, 1.36

Lorna = 1.13, 1.19, 1.48, 1.49, 1.25

Danya

Lorna

i) What is the mode for both girls?

ii) What is the mean for both girls?

iii) What is the median for both girls?

NAME: _____



Activity Four

4) In the tally chart below, record how many pets each of your classmates have in their home.

Number of Pets										
Frequency										

- a) What is the mean?
- b) What is the mode?
- c) What is the median?
- d) What is the range?
- e) What is the outlier? Why?

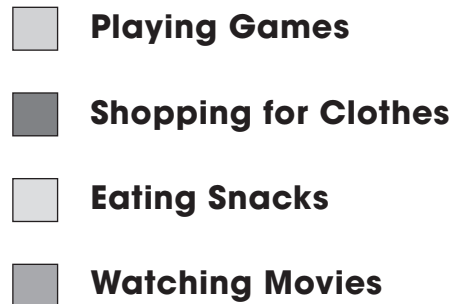
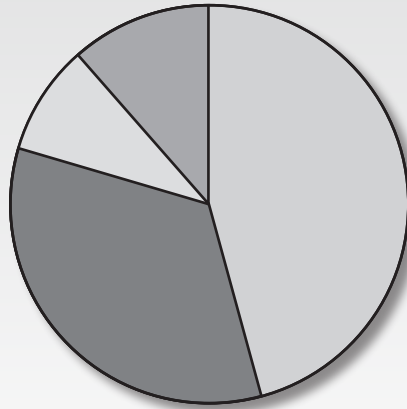
f) Create a graph with the information above in the space below.

g) What other information could have been asked during the survey to create greater detail on a graph?



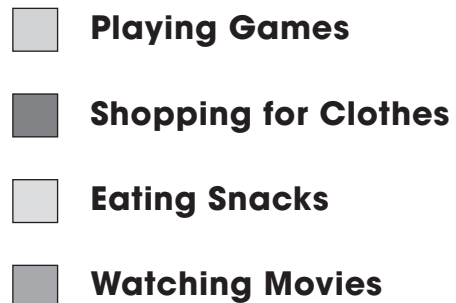
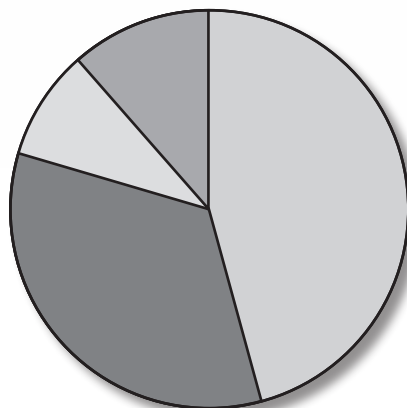
Activity Five

- 5) Below is a circle graph showing how much time ShayInn spends doing different activities.



Using the Circle graph above, answer the questions below.

- What activity does ShayInn spend the most time doing?
- What activity does ShayInn spend the least amount of time doing?
- What information is missing from the graph?
- How would you make the graph more informative?
- Re-graph the information gathered in question d) onto the circle graph below.





Activity Six



6a) Number and label the grid below.

b) Place a 😊 in various squares on the grid followed by the letter. Example: 😊 A

c) Create a pattern as you plot your 😊.

d) What pattern did you create?

e) Was the pattern easy to create on this graph? Why or why not?

f) List the coordinates for each 😊 you put on the grid.

1.

a) 31°C (87°F)

b) 32°C (90°F)

c) 32°C (90°F)

d) 7 (12)

e) No

f) 56% Likely

g) Answers may vary.

h) Answers may vary.

1A

2.

Answers will vary.

2A

3.

a) i) Mean = 12,
Mode = none

ii) Median = 12,
Range = 18

b) i) Mean = 6,
Mode = 2

ii) Median = 4,
Range = 14

iii) Outlier = 16

iv) Answers may vary.

c) Answers may vary.

d) i) Danya = none,
Lorna = none

ii) Danya = 1.47,
Lorna = 1.31

iii) Danya = 1.36,
Lorna = 1.25

3A

4.

Answers will vary.

4A

5.

a) Playing Games

b) Eating Snacks

c) Answers may vary. Possible answer includes: values.

d) Answers may vary. Possible answers include: values, headings, and time.

5A

6.

Answers will vary.

6A

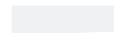


(these answers are for the 6 free bonus pages, see page 3 for download instructions)

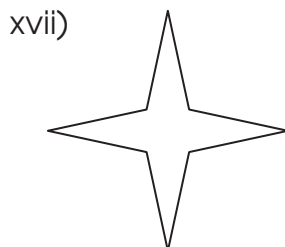
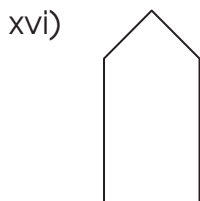
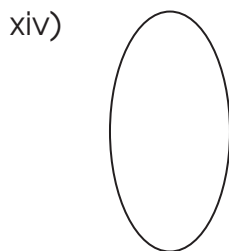
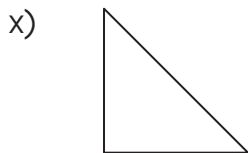
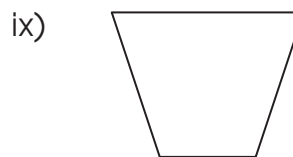
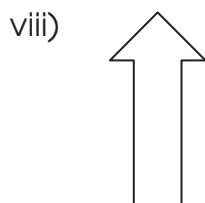
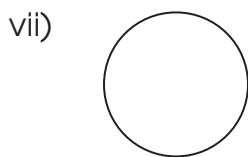
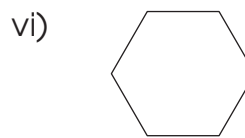
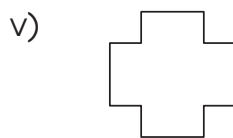
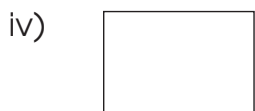
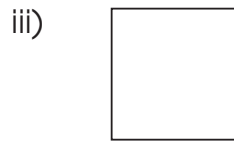
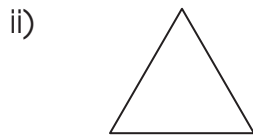
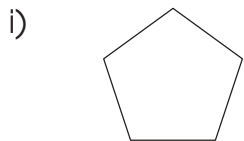
NAME: _____



Activity One



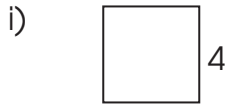
a) Two shapes are congruent if they are the same size and the same shape. Draw the congruent shape for the following shapes.

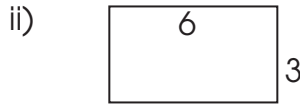


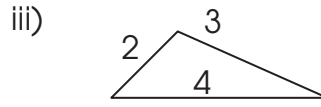


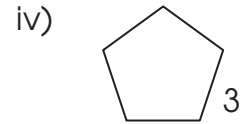
Activity Two

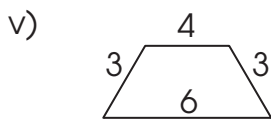
a) Find the perimeter of each shape. Add the sides together to find the perimeter.

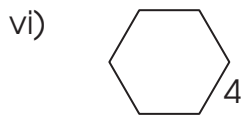


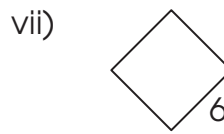


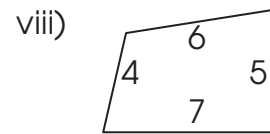












b) Draw 4 different rectangles with perimeters of 24 units.

i)

ii)

iii)

iv)

c) Draw 4 different triangles with perimeters of 15 units.

i)

ii)

iii)

iv)

d) Draw 4 different trapezoids with perimeters of 20 units.

i)

ii)

iii)

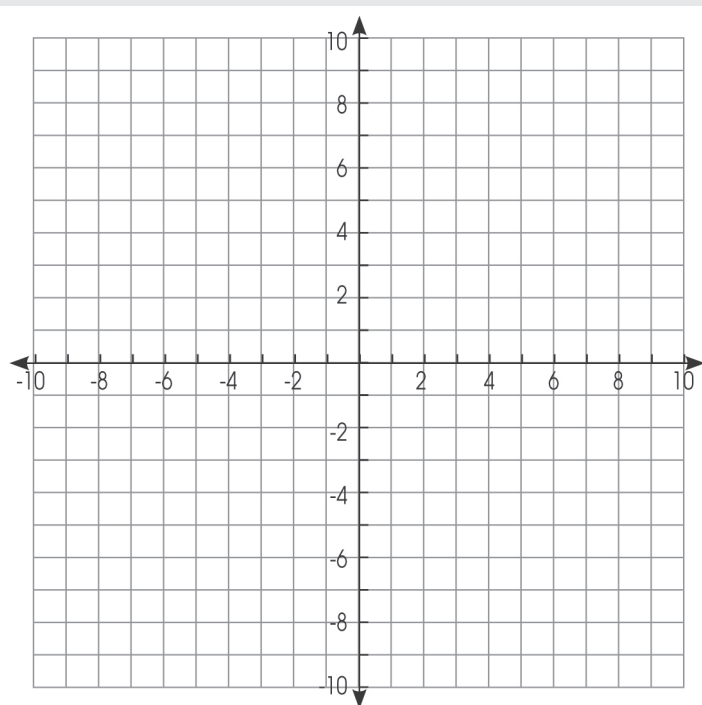
iv)

NAME: _____



Activity Three

a) Draw a different shape in each quadrant. Write the coordinates for each shape in the chart below.



Shape 1

X	Y

Shape 2

X	Y

Shape 3

X	Y

Shape 4

X	Y

NAME: _____



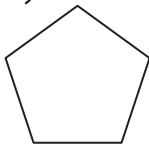
Activity Four

a) Transform each shape.

i) 90° Rotation



iii) 180° Rotation



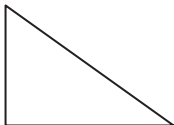
v) Horizontal Reflection



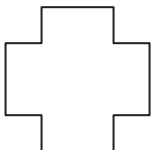
vii) Vertical Reflection



ix) 90° Rotation



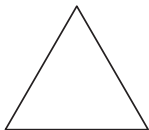
xi) Translation



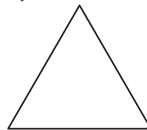
xiii) 90° Rotation



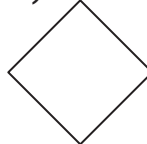
xv) 90° Rotation



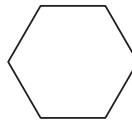
ii) Translation



iv) Horizontal Reflection



vi) 90° Rotation



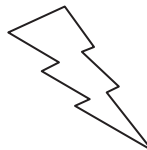
viii) Vertical Reflection



x) Horizontal Reflection



xii) Horizontal Reflection



xiv) Translation



xvi) Vertical Reflection

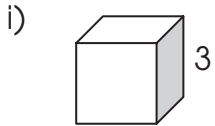


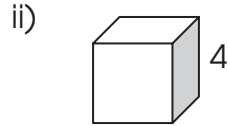


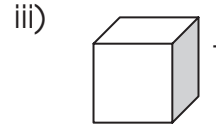
Activity Five

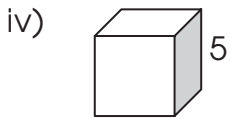
a) Find the surface area for each cube.

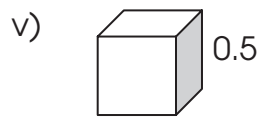
Formula: $6a^2$ ($a = \text{side}$)

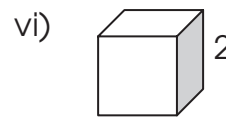






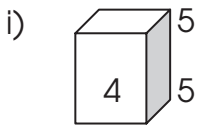


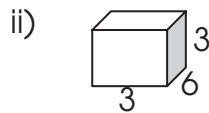


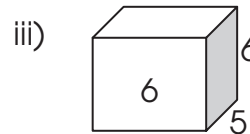


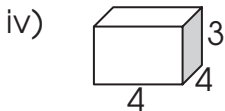
b) Find the surface area for each rectangular prism.

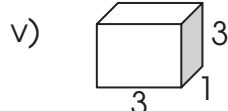
Formula: $2ab + 2bc + 2ac$ ($abc = \text{height, width, length}$)

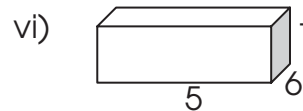






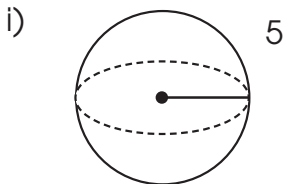


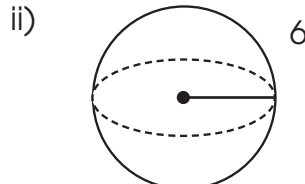


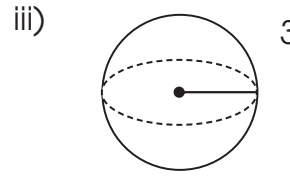


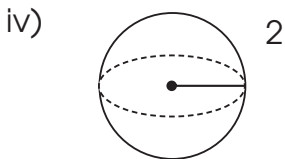
c) Find the surface area for each sphere.

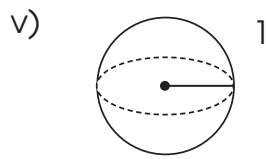
Formula: $4\pi r^2$ ($\pi = 3.14$)

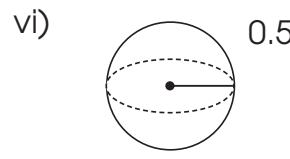










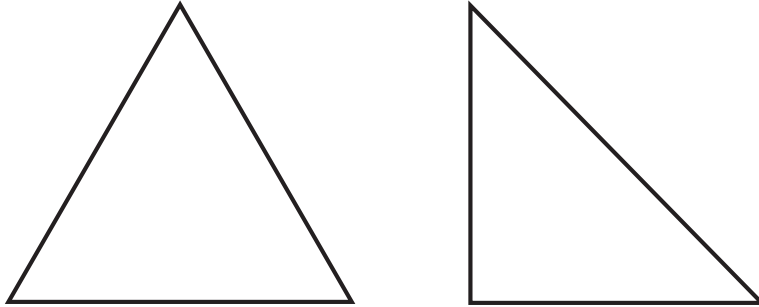


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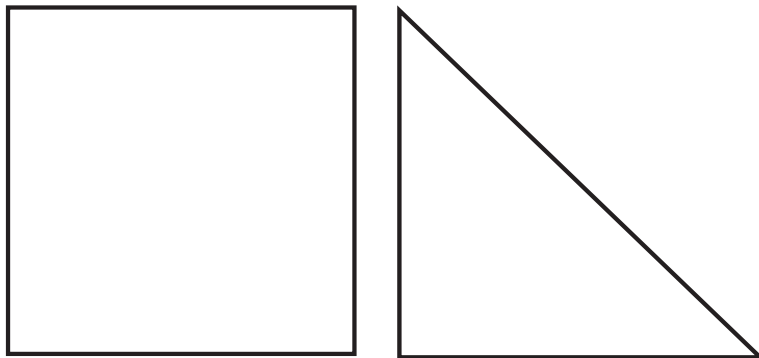


Activity Six

- a) How many different shapes can you make using the two triangles below? Label each shape you make. (Trace the triangles onto another sheet of paper and cut them out. Use them as tracing patterns to make the different shapes.)



- b) How many different shapes can you make using the square and triangle below? Label each shape you make. (Trace the triangles onto another sheet of paper and cut them out. Use them as tracing patterns to make the different shapes.)



1.

a)

Check to make sure the student drew the congruent shape.

1A

2.

a)

- i) 16 units
- ii) 18 units
- iii) 9 units
- iv) 15 units
- v) 16 units
- vi) 24 units
- vii) 24 units
- viii) 22 units

b)

Make sure the student drew rectangles with sides equaling to 24 units.

2A

3.


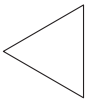




a)

Check to make sure the student wrote the correct coordinates for each shape.

3A

4.

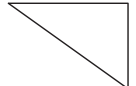
a)

- i) 
- ii) 
- iii) 
- iv) 
- v) 
- vi) 

vii) 

viii)

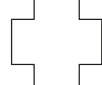
ix)



x)



xi)



xii)



xiii)



xiv)



xv)



xvi)



4A

5.

a)

- i) 54 units squared
- ii) 96 units squared
- iii) 6 units squared
- iv) 150 units squared
- v) 1.5 units squared
- vi) 24 units squared

b)

- i) 130 units squared
- ii) 90 units squared
- iii) 192 units squared
- iv) 80 units squared
- v) 30 units squared
- vi) 82 units squared

c)

- i) 314 units squared
- ii) 452.16 units squared
- iii) 113.04 units squared
- iv) 50.24 units squared
- v) 12.56 units squared
- vi) 3.14 units squared

5A

6.

a)

Shapes will vary.

b)

Shapes will vary.

6A



(these answers are for the 6 free bonus pages, see page 5 for download instructions)



Publication Listing

•••••
Ask Your Dealer About Our Complete Line

ENVIRONMENTAL STUDIES

ITEM #	TITLE
MANAGING OUR WASTE SERIES	
CC5764	Waste: At the Source
CC5765	Prevention, Recycling & Conservation
CC5766	Waste: The Global View
CC5767	Waste Management Big Book
CLIMATE CHANGE SERIES	
CC5769	Global Warming: Causes
CC5770	Global Warming: Effects
CC5771	Global Warming: Reduction
CC5772	Global Warming Big Book
GLOBAL WATER SERIES	
CC5773	Conservation: Fresh Water Resources
CC5774	Conservation: Ocean Water Resources
CC5775	Conservation: Waterway Habitats Resources
CC5776	Water Conservation Big Book
CARBON FOOTPRINT SERIES	
CC5778	Reducing Your Own Carbon Footprint
CC5779	Reducing Your School's Carbon Footprint
CC5780	Reducing Your Community's Carbon Footprint
CC5781	Carbon Footprint Big Book

LANGUAGE ARTS

ITEM #	TITLE
WRITING SKILLS SERIES	
CC1100	How to Write a Paragraph
CC1101	How to Write a Book Report
CC1102	How to Write an Essay
CC1103	Master Writing Big Book
READING SKILLS SERIES	
CC1116	Reading Comprehension
CC1117	Literary Devices
CC1118	Critical Thinking
CC1119	Master Reading Big Book

REGULAR & REMEDIAL EDUCATION

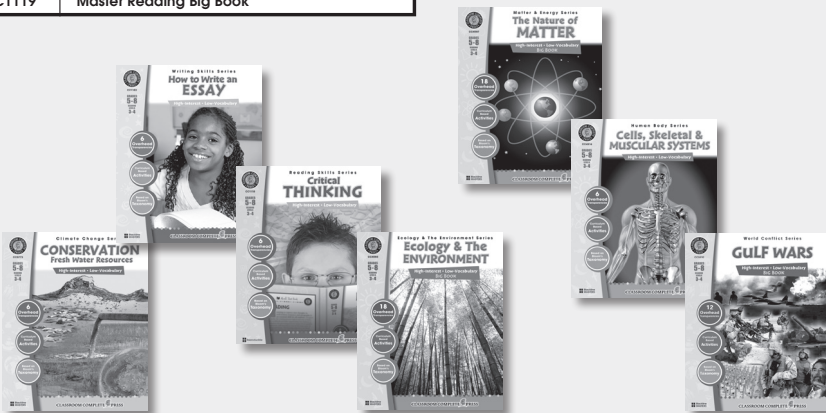
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 Reading Level 3-4 Grades 5-8

SCIENCE

ITEM #	TITLE
ECOLOGY & THE ENVIRONMENT SERIES	
CC4500	Ecosystems
CC4501	Classification & Adaptation
CC4502	Cells
CC4503	Ecology & The Environment Big Book
MATTER & ENERGY SERIES	
CC4504	Properties of Matter
CC4505	Atoms, Molecules & Elements
CC4506	Energy
CC4507	The Nature of Matter Big Book
FORCE & MOTION SERIES	
CC4508	Force
CC4509	Motion
CC4510	Simple Machines
CC4511	Force, Motion & Simple Machines Big Book
SPACE & BEYOND SERIES	
CC4512	Space - Solar Systems
CC4513	Space - Galaxies & The Universe
CC4514	Space - Travel & Technology
CC4515	Space Big Book
HUMAN BODY SERIES	
CC4516	Cells, Skeletal & Muscular Systems
CC4517	Nervous, Senses & Respiratory Systems
CC4518	Circulatory, Digestive & Reproductive Systems
CC4519	Human Body Big Book

SOCIAL STUDIES

ITEM #	TITLE
NORTH AMERICAN GOVERNMENTS SERIES	
CC5757	American Government
CC5758	Canadian Government
CC5759	Mexican Government
CC5760	Governments of North America Big Book
WORLD GOVERNMENTS SERIES	
CC5761	World Political Leaders
CC5762	World Electoral Processes
CC5763	Capitalism vs. Communism
CC5777	World Politics Big Book
WORLD CONFLICT SERIES	
CC5500	American Civil War
CC5511	American Revolutionary War
CC5512	American Wars Big Book
CC5501	World War I
CC5502	World War II
CC5503	World Wars I & II Big Book
CC5505	Korean War
CC5506	Vietnam War
CC5507	Korean & Vietnam Wars Big Book
CC5508	Persian Gulf War (1990-1991)
CC5509	Iraq War (2003-2010)
CC5510	Gulf Wars Big Book
WORLD CONTINENTS SERIES	
CC5750	North America
CC5751	South America
CC5768	The Americas Big Book
CC5752	Europe
CC5753	Africa
CC5754	Asia
CC5755	Australia
CC5756	Antarctica
WORLD CONNECTIONS SERIES	
CC5782	Culture, Society & Globalization
CC5783	Economy & Globalization
CC5784	Technology & Globalization
CC5785	Globalization Big Book
MAPPING SKILLS SERIES	
CC5786	Grades PK-2 Mapping Skills with Google Earth
CC5787	Grades 3-5 Mapping Skills with Google Earth
CC5788	Grades 6-8 Mapping Skills with Google Earth
CC5789	Grades PK-8 Mapping Skills with Google Earth Big Book



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LITERATURE KITS™ (Novel Study Guides)

ITEM #	TITLE
GRADES 1-2	
CC2100	Curious George (H. A. Rey)
CC2101	Paper Bag Princess (Robert N. Munsch)
CC2102	Stone Soup (Marcia Brown)
CC2103	The Very Hungry Caterpillar (Eric Carle)
CC2104	Where the Wild Things Are (Maurice Sendak)
GRADES 3-4	
CC2300	Babe: The Gallant Pig (Dick King-Smith)
CC2301	Because of Winn-Dixie (Kate DiCamillo)
CC2302	The Tale of Despereaux (Kate DiCamillo)
CC2303	James and the Giant Peach (Roald Dahl)
CC2304	Ramona Quimby, Age 8 (Beverly Cleary)
CC2305	The Mouse and the Motorcycle (Beverly Cleary)
CC2306	Charlotte's Web (E.B. White)
CC2307	Owls in the Family (Farley Mowat)
CC2308	Sarah, Plain and Tall (Patricia MacLachlan)
CC2309	Matilda (Roald Dahl)
CC2310	Charlie & The Chocolate Factory (Roald Dahl)
CC2311	Frindle (Andrew Clements)
CC2312	M.C. Higgins, the Great (Virginia Hamilton)
CC2313	The Family Under The Bridge (N.S. Carlson)
GRADES 5-6	
CC2500	Black Beauty (Anna Sewell)
CC2501	Bridge to Terabithia (Katherine Paterson)
CC2502	Bud, Not Buddy (Christopher Paul Curtis)
CC2503	The Egypt Game (Zilpha Keatley Snyder)
CC2504	The Great Gilly Hopkins (Katherine Paterson)
CC2505	Holes (Louis Sachar)
CC2506	Number the Stars (Lois Lowry)
CC2507	The Sign of the Beaver (E.G. Speare)
CC2508	The Whipping Boy (Sid Fleischman)
CC2509	Island of the Blue Dolphins (Scott O'Dell)
CC2510	Underground to Canada (Barbara Smucker)
CC2511	Loser (Jerry Spinelli)
CC2512	The Higher Power of Lucky (Susan Patron)
CC2513	Kira-Kira (Cynthia Kadohata)
CC2514	Dear Mr. Henshaw (Beverly Cleary)
CC2515	The Summer of the Swans (Betsy Byars)
CC2516	Shiloh (Phyllis Reynolds Naylor)
CC2517	A Single Shard (Linda Sue Park)
CC2518	Hoot (Carl Hiaasen)
CC2519	Hatchet (Gary Paulsen)
CC2520	The Giver (Lois Lowry)
CC2521	The Graveyard Book (Neil Gaiman)
CC2522	The View From Saturday (E.L. Konigsburg)
CC2523	Hattie Big Sky (Kirby Larson)
CC2524	When You Reach Me (Rebecca Stead)
CC2525	Criss Cross (Lynne Rae Perkins)
CC2526	A Year Down Yonder (Richard Peck)
GRADES 7-8	
CC2700	Cheaper by the Dozen (Frank B. Gilbreth)
CC2701	The Miracle Worker (William Gibson)
CC2702	The Red Pony (John Steinbeck)
CC2703	Treasure Island (Robert Louis Stevenson)
CC2704	Romeo & Juliet (William Shakespeare)
CC2705	Crispin: The Cross of Lead (Avi)
GRADES 9-12	
CC2001	To Kill A Mockingbird (Harper Lee)
CC2002	Angela's Ashes (Frank McCourt)
CC2003	The Grapes of Wrath (John Steinbeck)
CC2004	The Good Earth (Pearl S. Buck)
CC2005	The Road (Cormac McCarthy)
CC2006	The Old Man and the Sea (Ernest Hemingway)

REGULAR EDUCATION

LANGUAGE ARTS

ITEM #	TITLE
READING RESPONSE FORMS SERIES	
CC1106	Reading Response Forms: Grades 1-2
CC1107	Reading Response Forms: Grades 3-4
CC1108	Reading Response Forms: Grades 5-6
CC1109	Reading Response Forms Big Book: Grades 1-6
WORD FAMILIES SERIES	
CC1110	Word Families - Short Vowels: Grades PK-1
CC1111	Word Families - Long Vowels: Grades PK-1
CC1112	Word Families - Vowels Big Book: Grades K-1
SIGHT & PICTURE WORDS SERIES	
CC1113	High Frequency Sight Words: Grades PK-1
CC1114	High Frequency Picture Words: Grades PK-1
CC1115	Sight & Picture Words Big Book Grades PK-1

INTERACTIVE WHITEBOARD SOFTWARE

ITEM #	TITLE
WORD FAMILIES SERIES	
CC7112	Word Families - Short Vowels Grades PK-2
CC7113	Word Families - Long Vowels Grades PK-2
CC7114	Word Families - Vowels Big Box Grades PK-2
SIGHT & PICTURE WORDS SERIES	
CC7100	High Frequency Sight Words Grades PK-2
CC7101	High Frequency Picture Words Grades PK-2
CC7102	Sight & Picture Words Big Box Grades PK-2
WRITING SKILLS SERIES	
CC7104	How to Write a Paragraph Grades 3-8
CC7105	How to Write a Book Report Grades 3-8
CC7106	How to Write an Essay Grades 3-8
CC7107	Master Writing Big Box Grades 3-8
READING SKILLS SERIES	
CC7108	Reading Comprehension Grades 3-8
CC7109	Literary Devices Grades 3-8
CC7110	Critical Thinking Grades 3-8
CC7111	Master Reading Big Box Grades 3-8
PRINCIPLES & STANDARDS OF MATH SERIES	
CC7315	Five Strands of Math Big Box Grades PK-2
CC7316	Five Strands of Math Big Box Grades 3-5
CC7317	Five Strands of Math Big Box Grades 6-8
SPACE & BEYOND SERIES	
CC7557	Solar System Grades 3-8
CC7558	Galaxies & The Universe Grades 3-8
CC7559	Space Travel & Technology Grades 3-8
CC7560	Space Big Box Grades 3-8
HUMAN BODY SERIES	
CC7549	Cells, Skeletal & Muscular Systems Grades 3-8
CC7550	Senses, Nervous & Respiratory Systems Grades 3-8
CC7551	Circulatory, Digestive & Reproductive Systems Grades 3-8
CC7552	Human Body Big Box Grades 3-8
FORCE, MOTION & SIMPLE MACHINES SERIES	
CC7553	Force Grades 3-8
CC7554	Motion Grades 3-8
CC7555	Simple Machines Grades 3-8
CC7556	Force, Motion & Simple Machines Big Box Grades 3-8
CLIMATE CHANGE SERIES	
CC7747	Global Warming: Causes Grades 3-8
CC7748	Global Warming: Effects Grades 3-8
CC7749	Global Warming: Reduction Grades 3-8
CC7750	Global Warming Big Box Grades 3-8

MATHEMATICS

ITEM #	TITLE
PRINCIPLES & STANDARDS OF MATH SERIES	
CC3100	Grades PK-2 Number & Operations Task Sheets
CC3101	Grades PK-2 Algebra Task Sheets
CC3102	Grades PK-2 Geometry Task Sheets
CC3103	Grades PK-2 Measurement Task Sheets
CC3104	Grades PK-2 Data Analysis & Probability Task Sheets
CC3105	Grades PK-2 Five Strands of Math Big Book Task Sheets
CC3106	Grades 3-5 Number & Operations Task Sheets
CC3107	Grades 3-5 Algebra Task Sheets
CC3108	Grades 3-5 Geometry Task Sheets
CC3109	Grades 3-5 Measurement Task Sheets
CC3110	Grades 3-5 Data Analysis & Probability Task Sheets
CC3111	Grades 3-5 Five Strands of Math Big Book Task Sheets
CC3112	Grades 6-8 Number & Operations Task Sheets
CC3113	Grades 6-8 Algebra Task Sheets
CC3114	Grades 6-8 Geometry Task Sheets
CC3115	Grades 6-8 Measurement Task Sheets
CC3116	Grades 6-8 Data Analysis & Probability Task Sheets
CC3117	Grades 6-8 Five Strands of Math Big Book Task Sheets
PRINCIPLES & STANDARDS OF MATH SERIES	
CC3200	Grades PK-2 Number & Operations Drill Sheets
CC3201	Grades PK-2 Algebra Drill Sheets
CC3202	Grades PK-2 Geometry Drill Sheets
CC3203	Grades PK-2 Measurement Drill Sheets
CC3204	Grades PK-2 Data Analysis & Probability Drill Sheets
CC3205	Grades PK-2 Five Strands of Math Big Book Drill Sheets
CC3206	Grades 3-5 Number & Operations Drill Sheets
CC3207	Grades 3-5 Algebra Drill Sheets
CC3208	Grades 3-5 Geometry Drill Sheets
CC3209	Grades 3-5 Measurement Drill Sheets
CC3210	Grades 3-5 Data Analysis & Probability Drill Sheets
CC3211	Grades 3-5 Five Strands of Math Big Book Drill Sheets
CC3212	Grades 6-8 Number & Operations Drill Sheets
CC3213	Grades 6-8 Algebra Drill Sheets
CC3214	Grades 6-8 Geometry Drill Sheets
CC3215	Grades 6-8 Measurement Drill Sheets
CC3216	Grades 6-8 Data Analysis & Probability Drill Sheets
CC3217	Grades 6-8 Five Strands of Math Big Book Drill Sheets
PRINCIPLES & STANDARDS OF MATH SERIES	
CC3300	Grades PK-2 Number & Operations Task & Drill Sheets
CC3301	Grades PK-2 Algebra Task & Drill Sheets
CC3302	Grades PK-2 Geometry Task & Drill Sheets
CC3303	Grades PK-2 Measurement Task & Drill Sheets
CC3304	Grades PK-2 Data Analysis & Probability Task & Drill
CC3306	Grades 3-5 Number & Operations Task & Drill Sheets
CC3307	Grades 3-5 Algebra Task & Drill Sheets
CC3308	Grades 3-5 Geometry Task & Drill Sheets
CC3309	Grades 3-5 Measurement Task & Drill Sheets
CC3310	Grades 3-5 Data Analysis & Probability Task & Drill
CC3312	Grades 6-8 Number & Operations Task & Drill Sheets
CC3313	Grades 6-8 Algebra Task & Drill Sheets
CC3314	Grades 6-8 Geometry Task & Drill Sheets
CC3315	Grades 6-8 Measurement Task & Drill Sheets
CC3316	Grades 6-8 Data Analysis & Probability Task & Drill

