Correlation of Mathematics Readers Grade 6 to the British Columbia Mathematics Integrated Resource Package

Number

PRESCRIBED LEARNING OUTCOME

A2.

Solve problems involving large numbers, using technology [ME, PS, T]

Correlated Lessons:

Watch It Grow, Where Germs Lurk Page Reader: Objective 34 Students understand the characteristics and uses of exponents and scientific notation

PRESCRIBED LEARNING OUTCOME

A4.

Relate improper fractions to mixed numbers [CN, ME, R, V]

Correlated Lessons:

What Did I Eat?, How Do They Make That? Page Reader: Objective 32 Students understand the relationships among equivalent number representations and the advantages and disadvantages of each type of representation

PRESCRIBED LEARNING OUTCOME

A5.

Demonstrate an understanding of ratio, concretely, pictorially, and symbolically [C, CN, PS, R, V]

Correlated Lessons:

On the Road, Our New Car Page 36, 41: Objective 1 Students will use ratio language to describe relationships and solve real-world problems including rates and percent.

On the Road, Our New Car Page Reader: Objective 27 Students understand the concepts of ratio, proportion, and percent and the relationships among them

On the Road, Our New Car Page Reader: Objective 28 Students use proportional reasoning to solve mathematical and real-world problems (e.g., involving equivalent fractions, equal ratios, constant rate of change, proportions, percents)

PRESCRIBED LEARNING OUTCOME

A8.

Demonstrate an understanding of multiplication and division of decimals (1-digit whole number multipliers and 1-digit natural number divisors) [C, CN, ME ,PS, R, V]

Correlated Lessons:
Watch It Grow, Where Germs Lurk, Land Animals, Sea Creatures, A Sense of Art, Landscape by Design, Package Design, Pack It Up Page Reader: Objective 35 Students add, subtract, multiply, and divide integers, and rational numbers

What Did I Eat?, How Do They Make That? Page 60, 65: Objective 4 Students will apply and extend previous understandings of addition, subtraction, multiplication, and division of rational numbers,

PRESCRIBED LEARNING OUTCOME

A9.

Explain and apply the order of operations, excluding exponents, with and without technology (limited to whole numbers) [CN, ME, PS, T]

Correlated Lessons:
Watch It Grow, Where Germs Lurk Page Reader: Objective 37 Students understand the correct order of operations for performing arithmetic computations

Patterns and Relations

PRESCRIBED LEARNING OUTCOME

B3.

Variables and Equations: Represent generalizations arising from number relationships using equations with letter variables. [C, CN, PS, R, V]

Correlated Lessons:
Land Animals, Sea Creatures Page 108, 113: Objective 10 Students will write and solve equations and inequalities.

PRESCRIBED LEARNING OUTCOME

B4.

Variables and Equations: Demonstrate and explain the meaning of preservation of equality concretely, pictorially, and symbolically [C, CN, PS, R, V]

Correlated Lessons:
Land Animals, Sea Creatures Page Reader: Objective 41 Students solve linear equations using concrete, informal, and formal methods

Shape and Space

PRESCRIBED LEARNING OUTCOME

C3.1.

Measurement: Develop and apply a formula for determining the: perimeter of polygons

Correlated Lessons:

A Sense of Art, Landscape by Design Page 132, 137: Objective 13 Students will find the perimeter and area of polygons and circles in mathematical and real-world contexts.

PRESCRIBED LEARNING OUTCOME

C3.2.

Measurement: Develop and apply a formula for determining the: area of rectangles

Correlated Lessons:
A Sense of Art, Landscape by Design Page Reader: Objective 43 Students solve problems involving perimeter (circumference) and area of various shapes

A Sense of Art, Landscape by Design, Package Design, Pack It Up Page Reader: Objective 44 Students understand formulas for finding measures (e.g., area, volume, surface area)

PRESCRIBED LEARNING OUTCOME

C3.3.

Measurement: Develop and apply a formula for determining the: volume of right rectangular prisms [C, CN, PS, R, V]

Correlated Lessons:
A Sense of Art, Landscape by Design, Package Design, Pack It Up Page Reader: Objective 44 Students understand formulas for finding measures (e.g., area, volume, surface area)

Package Design, Pack It Up Page 156, 161: Objective 16 Students will find the surface area and volume of rectangular prisms and cylinders.

Statistics and Probability

PRESCRIBED LEARNING OUTCOME

D1.

Data Analysis: create, label, and interpret line graphs to draw conclusions [C, CN, PS, R, V]

Correlated Lessons:
Hurricane Hunters, Tornado Chasers, Tonight's Concert, Battle of the Bands Page Reader: Objective 49 Students read and interpret data in charts, tables, and plots

Hurricane Hunters, Tornado Chasers, Tonight's Concert, Battle of the Bands Page Reader: Objective 51 Students organize and display data using tables, graphs (e.g., line, circle, bar), frequency distributions, and plots (e.g., box-and-whiskers)

PRESCRIBED LEARNING OUTCOME

D3.

Data Analysis: Graph collected data and analyze the graph to solve problems [C, CN, PS]

Correlated Lessons:
Hurricane Hunters, Tornado Chasers, Tonight's Concert, Battle of the Bands Page Reader: Objective 51 Students organize and display data using tables, graphs (e.g., line, circle, bar), frequency distributions, and plots (e.g., box-and-whiskers)

Tonight's Concert, Battle of the Bands Page 204, 209: Objective 21 Students will understand how to read and construct statistical graphs.