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CW Middle School
Mathematics 8 C

1. **Exponents, Relations, and Functions (20.00%)**

Learning Targets

1.1 **I can examine and write equations for exponential growth.**

Learning Target	Descriptor	Definition
4	Proficient	I can examine and write equations for exponential growth.
3	Developing	I can interpret and write equations for exponential growth.
2	Basic	I can write equations for exponential growth.
1	Minimal	I can examine equations for exponential growth.
0	No Evidence	No evidence shown.

1.2 **I can understand and apply the rules of exponents.**

Learning Target	Descriptor	Definition
4	Proficient	I can understand and apply the rules of exponents.
3	Developing	I can understand the rules of exponents.
2	Basic	I can describe the rules of exponents.
1	Minimal	I can define the rules of exponents.
0	No Evidence	No evidence shown.

1.3 **I can arrange numbers from standard notation to scientific notation and from scientific notation to standard notation.**

Learning Target	Descriptor	Definition
4	Proficient	I can arrange numbers from standard notation to scientific notation and from scientific notation to standard notation.
3	Developing	I can express numbers from standard notation to scientific notation and from scientific notation to standard notation.
2	Basic	I can describe standard and scientific notation.
1	Minimal	I can define standard and scientific notation.
0	No Evidence	No evidence shown.

1.4 **I can compare and contrast relations and functions.**

Learning Target	Descriptor	Definition

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Learning Target	Descriptor	Definition
4	Proficient	I can compare and contrast relations and functions.
3	Developing	I can compare relations and functions.
2	Basic	I can interpret relations and functions.
1	Minimal	I can define relations and functions.
0	No Evidence	No evidence shown.

2. Angle relationships and the Pythagorean Theorem (20.00%)

Learning Targets

2.1 I can classify angle pair relationships and correctly solve for an unknown.

Learning Target	Descriptor	Definition
4	Proficient	I can classify angle pair relationships and correctly solve for an unknown.
3	Developing	I can recognize angle pair relationships and correctly solve for an unknown.
2	Basic	I can list angle pair relationships and correctly solve for an unknown.
1	Minimal	I can define angle pair relationships.
0	No Evidence	No evidence shown.

2.2 I can apply AA similarity to compare triangles.

Learning Target	Descriptor	Definition
4	Proficient	I can apply AA similarity to compare triangles.
3	Developing	I can recognize AA similarity to compare triangles.
2	Basic	I can define AA similarity to compare triangles.
1	Minimal	I can define AA similarity.
0	No Evidence	No evidence shown.

2.3 I can approximate and evaluate square roots.

Learning Target	Descriptor	Definition
4	Proficient	I can approximate and evaluate square roots.

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Learning Target	Descriptor	Definition
3	Developing	I can approximate and compute square roots
2	Basic	I can compute square roots
1	Minimal	I can define square roots
0	No Evidence	No evidence shown.

2.4 I can analyze when to use the Pythagorean theorem and solve for unknown lengths in right triangle relations.

Learning Target	Descriptor	Definition
4	Proficient	I can analyze when to use the Pythagorean theorem and solve for unknown lengths in right triangle relations.
3	Developing	I can interpret when to use the Pythagorean theorem and solve for unknown lengths in right triangle relations.
2	Basic	I can identify when to use the Pythagorean theorem and solve for unknown lengths in right triangle relations.
1	Minimal	I can define the Pythagorean theorem.
0	No Evidence	No evidence shown.

3. Surface Area and Volume (20.00%)

Learning Targets

3.1 I can evaluate the cubed root of a number.

Learning Target	Descriptor	Definition
4	Proficient	I can evaluate the cubed root of a number.
3	Developing	evaluate the cubed root of a number.
2	Basic	I can recognize the cubed root of a number.
1	Minimal	I can define a cubed root of a number.
0	No Evidence	No evidence shown.

3.2 I can evaluate the surface area of a cylinder.

Learning Target	Descriptor	Definition
4	Proficient	I can evaluate the surface area of a cylinder.

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Learning Target	Descriptor	Definition
3	Developing	I can demonstrate the surface area of a cylinder.
2	Basic	I can understand the surface area of a cylinder.
1	Minimal	I can define the surface area of a cylinder.
0	No Evidence	No evidence shown.

3.3 I can evaluate the volume of cylinders, cones, pyramids, and spheres.

Learning Target	Descriptor	Definition
4	Proficient	I can evaluate the volume of cylinders, cones, pyramids, and spheres.
3	Developing	I can understand the volume of cylinders, cones, pyramids, and spheres.
2	Basic	I can demonstrate the volume of cylinders, cones, pyramids, and spheres.
1	Minimal	I can define the volume of cylinders, cones, pyramids, and spheres.
0	No Evidence	No evidence shown.

3.4 I can apply volume to real world problems.

Learning Target	Descriptor	Definition
4	Proficient	I can apply volume to real world problems.
3	Developing	I can understand volume in relation to real world problems.
2	Basic	I can demonstrate volume in relation to real world problems.
1	Minimal	I can define volume in relation to real world problems.
0	No Evidence	No evidence shown.

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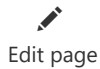
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4. Probability and Statistics (20.00%)

Learning Targets

4.1 I can analyze the total number of outcomes using basic counting principles.

Learning Target	Descriptor	Definition
4	Proficient	I can analyze the total number of outcomes using basic counting principles.
3	Developing	I can solve the total number of outcomes using basic counting principles.
2	Basic	I can recognize the total number of outcomes using basic counting principles.
1	Minimal	I can identify the total number of outcomes using basic counting principles.
0	No Evidence	No evidence shown.

4.2 I can evaluate the probability of two or more independent and dependent events.

Learning Target	Descriptor	Definition
4	Proficient	I can evaluate the probability of two or more independent and dependent events.
3	Developing	I can solve the probability of two or more independent and dependent events
2	Basic	I can identify the probability of two or more independent and dependent events
1	Minimal	I can define the probability of two or more independent and dependent events
0	No Evidence	No evidence shown.

4.3 I can analyze frequency tables, bar graphs, pictures, and circle graphs.

Learning Target	Descriptor	Definition
4	Proficient	I can analyze frequency tables, bar graphs, pictures, and circle graphs.
3	Developing	I can interpret frequency tables, bar graphs, pictures, and circle graphs.
2	Basic	I can describe frequency tables, bar graphs, pictures, and circle graphs.
1	Minimal	I can define frequency tables, bar graphs, pictures, and circle graphs.
0	No Evidence	No evidence shown.

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5. **Similar and Right Triangles (20.00%)**

Learning Targets

5.1 **I can use proportional reasoning to evaluate missing side lengths of similar figures.**

Learning Target	Descriptor	Definition
4	Proficient	I can use proportional reasoning to evaluate missing side lengths of similar figures.
3	Developing	I can use proportional reasoning to solve for missing side lengths of similar figures.
2	Basic	I can use proportional reasoning to identify missing side lengths of similar figures.
1	Minimal	I can use proportional reasoning to state missing side lengths of similar figures.
0	No Evidence	No evidence shown.

5.2 **I can evaluate the sine, cosine, and tangent of an angle.**

Learning Target	Descriptor	Definition
4	Proficient	I can evaluate the sine, cosine, and tangent of an angle.
3	Developing	I can solve for the sine, cosine, and tangent of an angle.
2	Basic	I can recognize the sine, cosine, and tangent of an angle.
1	Minimal	I can state the sine, cosine, and tangent of an angle.
0	No Evidence	No evidence shown.

5.3 **I can use trig ratios to evaluate the measure of an angle in a right triangle.**

Learning Target	Descriptor	Definition
4	Proficient	I can use trig ratios to evaluate the measure of an angle in a right triangle.
3	Developing	I can use trig ratios to solve for the measure of an angle in a right triangle.
2	Basic	I can use trig ratios to recognize the measure of an angle in a right triangle.
1	Minimal	I can use trig ratios to recognize the measure of an angle in a right triangle.
0	No Evidence	No evidence shown.

Submitted on 2/24/2020 by