Unit 10: Surface Area and Volume

Content Area: **Math**
Course(s): **Math**
Time Period: **September**
Length: **3-4 weeks**
Status: **Published**

Enduring Understandings

SWBAT:

- Describe the surface area and volume of different solids.
- Use formulas to find surface areas and volumes of solids.
- Solve real-life problems involving surface area and volume.
- Describe cross sections of solids

Essential Questions

How can we:

- Find the surface area of a prism
  - Use a formula to find the surface area of a prism.
  - Find the lateral surface area of a prism
- Find the surface area of a cylinder
  - Use a formula to find the surface area of a cylinder.
  - Find the lateral surface area of a cylinder
- Find the surface area of a pyramid
  - Use a net to find the surface area of a regular pyramid.
  - Find the lateral surface area of a regular pyramid
- Find the volume of a prism
  - Use a formula to find the volume of a prism.
  - Use the formula for the volume of a prism to find a missing dimension
- Find the volume of a pyramid
  - Use a formula to find the volume of a pyramid.
  - Use the volume of a pyramid to solve a real-life problem
- Describe the cross sections of a solid
  - Explain the meaning of a cross section.
  - Describe cross sections of prisms and pyramids.
  - Describe cross sections of cylinders and cones

Benchmark Assessments

Schoolwide Benchmark assessments:

- Linkit Benchmarks (Form A in September, Form B in January, Form C in June): Linked to NJSLA standards

Additional Benchmarks used in this unit:

- IXL Diagnostic + continued practice during IXL periods

Formative Assessments

Formative Assessments used in this unit:

- Kahoot! Games
- Quizizz Games
- Homework
- Q & A
- Scavenger Hunts
- Coloring Activities
- Task Cards
- Partner Activities

Summative Assessments

Summative assessments for this unit:

- Chapter Test
- Quizzes

Instructional Materials

1. Big Ideas Math: Math & You 6th Grade Textbook
2. Quizizz
3. Kahoot!
4. Scavenger Hunts
5. Task Cards
6. Coloring Activities
7. GimKit

Standards