# CONNECTIONS PLAYLISTS

**Over 100 available content-specific Connections Playlists provide the tools and resources to help you support students *where they need it*.**

GRADE 6 Geometry — Digital Library

*Student Learning Objective: Students solve real-world and mathematical problems involving area, surface area, and volume.*

**ABOVE STANDARD**

*Students are working to solidify the following skills:*

- Calculate area of rectangles on a coordinate plane.
- Calculate area of polygons with fractional dimensions.
- Calculate volume of rectangular prisms with three fractional dimensions.
- Calculate volume of figures composed of two rectangular prisms in multi-step word problems in a real world context.
- Calculate the distance between multiple points on a coordinate plane in multi-step word problems.
- Calculate surface area of shapes composed of triangles and rectangles using a net.
- Solve multi-step real world word problems involving surface area.

*Educator-recommended next steps and Digital Library resources*

Instructional next-steps include, helping students to:

- Model a real-life problem using multiplication and division of fractions, decimals and whole number. Digital Library Example: The Doghouse Performance Task
- Find the area of polygons by decomposing them into rectangles and triangles. Digital Library Example: Finding the Areas of Polygons by Decomposing and Composing
- Multiply mixed numbers. Digital Library Example: Designing an Algorithm/Flow Chart for Multiplying Fractions
- Use nets to calculate surface area. Digital Library Example: Knowing Nets

**AT/NEAR STANDARD**

*Students are working to solidify the following skills:*

- Calculate the area of right triangles.
- Calculate area of polygons using single-digit whole numbers.
- Calculate volume of rectangular prisms with whole numbers and fractional parts.
- Draw parallelograms in the four quadrants of a coordinate plane given ordered pairs.
- Calculate distance between two points on a coordinate plane.
- Calculate surface area of a rectangular prism from a net.

*Educator-recommended next steps and Digital Library resources*

Instructional next-steps include, helping students to:

- Determine the area of a right triangle by using half of the area of a rectangle. Digital Library Example: Area of Right Triangles
- Recognize volume as 3-dimensional and different from area. Digital Library Example: Designing Candy Cartons: Capacity and Surface Area Problem Solving
- Apply concepts of area on the coordinate plane. Digital Library Example: CCSS 6th Grade Explanations and Examples Flipbook
- Investigate surface area of a triangular prism by analyzing its 3-dimensional attributes. Digital Library Example: Knowing Nets

**BELOW STANDARD**

*Students are working to solidify the following skills:*

- Calculate area of parallelograms.
- Calculate volume of a rectangular prism.
- Draw rectangles on the coordinate plane using ordered pairs.
- Use four quadrants of coordinate plane.

*Educator-recommended next steps and Digital Library resources*

Instructional next-steps include, helping students to:

- Use the formula for the volume of a rectangular prism. Digital Library Example: Introducing Volume as a Formula
- Identify and graph points on a coordinate grid. Digital Library Example: BattleGraph: Using "Battleship" to Graph Points in the Coordinate Plane

*Digital Library resources are meant to be used in conjunction with an educator's curriculum, and to serve as a jumping-off point for instruction. Educators are encouraged to modify their particular classroom context and culture when selecting resources, and to adapt the resources to best fit their students' needs.*

- Access Digital Library instructional resources organized by student skill and performance level.
- Use Connections Playlists to support and respond to the Interim Assessment Blocks by providing resources aligned with students' needs.

Learn more and register for a free Digital Library account at http://www.sbdigitallibrary.org.

Digital Library | Smarter Balanced Assessment Consortium