

Sixth Grade

Math Learning Progression

Vocabulary: area, volume, edge, face, surface area, nets, base, cube, rectangular prisms, triangular prisms, height, polyhedrons.

Determine, apply, and explain how to calculate the perimeter and area of triangles and rectangles

"I can calculate, and explain how to find the area in square units of triangles, rectangles and squares."

Formative Assessments:
 Color Tiles
 Pictures
 Geoboards
 Drawings
 Real-life examples

Draw the nets for rectangular and triangular prisms, and explain how to calculate the total area

"I can draw and label the surface nets of rectangular and triangular prisms, and explain how to calculate their surface areas."

Formative Assessments:
 Drawings
 Pictures
 Polydrons
 Real-Life examples
 Graph paper

Calculate and explain how to determine the volume of triangular and rectangular prisms

"I can calculate the volume of triangular and rectangular prisms, and explain the formulas I use to find my answer."

Formative Assessments:
 Drawings
 Pictures
 Polydrons
 Real-Life examples
 Graph paper

Find the surface area of a rectangular prism by calculating the area of each face and adding them together

"I can find the surface area of a rectangular prism by calculating the area of each face and adding them together and explain my answer."

Formative Assessments:
 Drawings
 Pictures
 Polydrons
 Real-Life examples
 Graph paper

Calculate and compare the surface area of rectangular prisms with the same volume, or find the volume with the same surface area

"I can find the surface area of a rectangular prism by calculating the area of each face and adding them together and explain my answer."

Formative Assessments:
 Drawings
 Pictures
 Polydrons
 Real-Life examples
 Graph paper

6.4.E
 Determine surface area and volume of rectangular prisms using appropriate formulas and explain why the formulas work
CCSSM 6.G 1-2