

Teaching Unit F (Continued)

Math Background

Linear Measurement

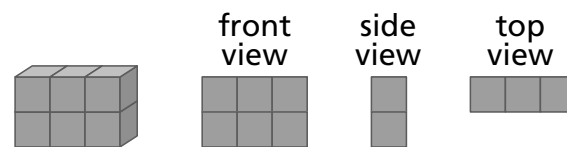
In previous units, children estimated and measured lengths in centimeters. In Unit F, children continue to develop and practice their estimating and measuring skills by making and using a meter stick. By connecting the metric system with the monetary and base ten systems, children learn to convert centimeters to meters and decimeters. In Unit G, children will explore customary units of measurement.

Solid Figures

Earlier in the year, children identified characteristics of two-dimensional figures. In this unit, children learn to distinguish between two-dimensional and three-dimensional figures. In the activities, children name and describe cubes, rectangular prisms, cylinders, cones, square pyramids, and spheres. They trace the faces of these solid figures, count edges, vertices, and faces, and observe if they stack, roll, or slide to help identify, sort, and classify these solid figures. Observing the attributes of stacking, rolling, or sliding prepares children for identifying if solid figures have parallel bases (stack), flat surfaces (slide), or curved surfaces (roll) in subsequent years.

Spatial Sense

In Unit F, children develop their spatial sense through observations of the relationships between two-dimensional faces, views, and nets and three-dimensional objects. They observe the faces of three-dimensional solids, identifying their two-dimensional shapes and counting them, and they build rectangular prisms from nets. Activities also include building rectangular prisms from cubes and drawing them from the front, side, and top views.



Volume

In this unit, children are introduced to finding volume by counting cubic units. Activities include finding the volume of rectangular prisms and three-dimensional buildings made from cubic units. For the three-dimensional buildings, children model them and then count the number of cubes they used. These activities prepare children for finding the volume of cube buildings by counting hidden cubes in drawings in subsequent years.

