

# LESSON PLAN

**Subject:** Grade 1 Math

**Lesson:** The Black Builders of Salem

**Standard Addressed:**

- Create composite shapes by making a three-dimensional composite shape using cubes, rectangular prisms, cones, and cylinders, naming the components of the new shape. (NC.1.G.2)

**Objectives:**

- Students will be able to identify cubes, rectangular prisms, cones and cylinders.
- Students will be able to use these 3-dimensional shapes to make new shapes.

**Materials Needed:**

- Device for showing *The Black Builders of Salem*.
- Various items around the classroom or home that represent 3-dimensional shapes such as:
  - A food can or roll of toilet paper (cylinder)
  - A tissue box or cereal box (rectangular prism)
  - A party hat or empty ice cream cone (cone)
  - A set of dice or baby blocks (cube)
- “Shaping Wood and Clay” activity

**Outline:**

- Prior to this lesson, students should understand what a composite shape is and be able to create 2-dimensional composite shapes.
- Show the video, guiding students in locating the different shapes they see. (Logs start as cylinders and then become rectangular prisms when cut into timbers. Mortise and tenon joints are rectangular prisms. Steeple notches contain triangular shapes. Dovetail joints contain parallelogram shapes. Bricks are rectangular prisms.)
- Discuss the activity prompt.
- Students finish the activity independently or with a partner.

**Take it Further:** Students play “I Spy” by finding and identifying the various 3-dimensional shapes in the classroom or in their homes.

**Cross-Curriculum Connection:** Students design a village like Salem using 3-dimensional shapes found in the classroom or at home. Alternatively, students design a village on graph paper or online using a 3-D modeling program such as Tinkercad. Students retell the story of the building of Salem as they guide viewers through their village.





# Shaping Wood and Clay

Grade 1 Math

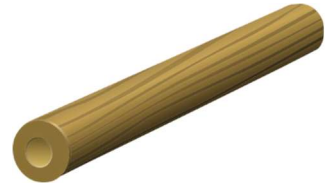
Student Name: \_\_\_\_\_

Date: \_\_\_\_\_

In the video, you saw lots of shapes made from wood and clay around Old Salem. Let's take a closer look at what you may have seen.

*Draw a line from each word to the shapes it describes. You will draw 2 lines from some words.*

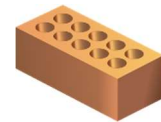
**Rectangular Prism**



**Cylinder**



**Cube**



*The building below is made of many shapes. Draw the shapes that you see.*





# Shaping Wood and Clay

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## Answer Key

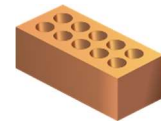
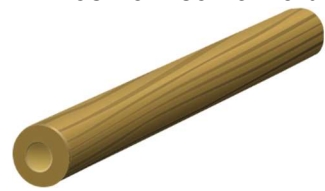
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