



LESSON PLAN

Subject: Grade 1 Science

Lesson: *Riving and Turning with Simple Machines*

Standard Addressed: Understand how forces (pushes and pulls) affect the motion of an object. (NC.1.P.1)

Objectives:

- Students will be able to identify the importance of a push or pull in changing the motion of an object.
- Students will know how the size of the change in motion of an object is based on the amount of force applied to the object.

Materials Needed:

- Device for showing *Riving and Turning with Simple Machines*
- “Riving and Turning with Simple Machines” activity sheet
- Modeling clay or play dough

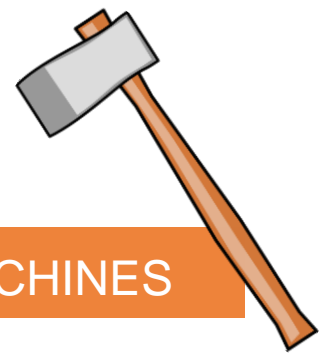
Outline:

- Prior to this lesson students should know that a force is a push or pull that can change the motion or direction of an object.
- Show the 8:46 minute Video, *Riving and Turning with Simple Machines*.
https://youtu.be/6nM3_CMd3JQ
- Discuss the activity prompt.
- Students finish the activity independently or with a partner.

Take It Further: As a follow-up to activity 2, students make a larger log with the clay. Students investigate how they must change the force in order to cut through the log.

Cross-Curriculum Connection: Go to https://www.youtube.com/watch?v=DW_QIMBjvHQ to read along about Peter and his chair. (*Peter’s Chair*, by Ezra Jack Keats, read by Mrs. Britton’s Book Nook)





RIVING AND TURNING WITH SIMPLE MACHINES

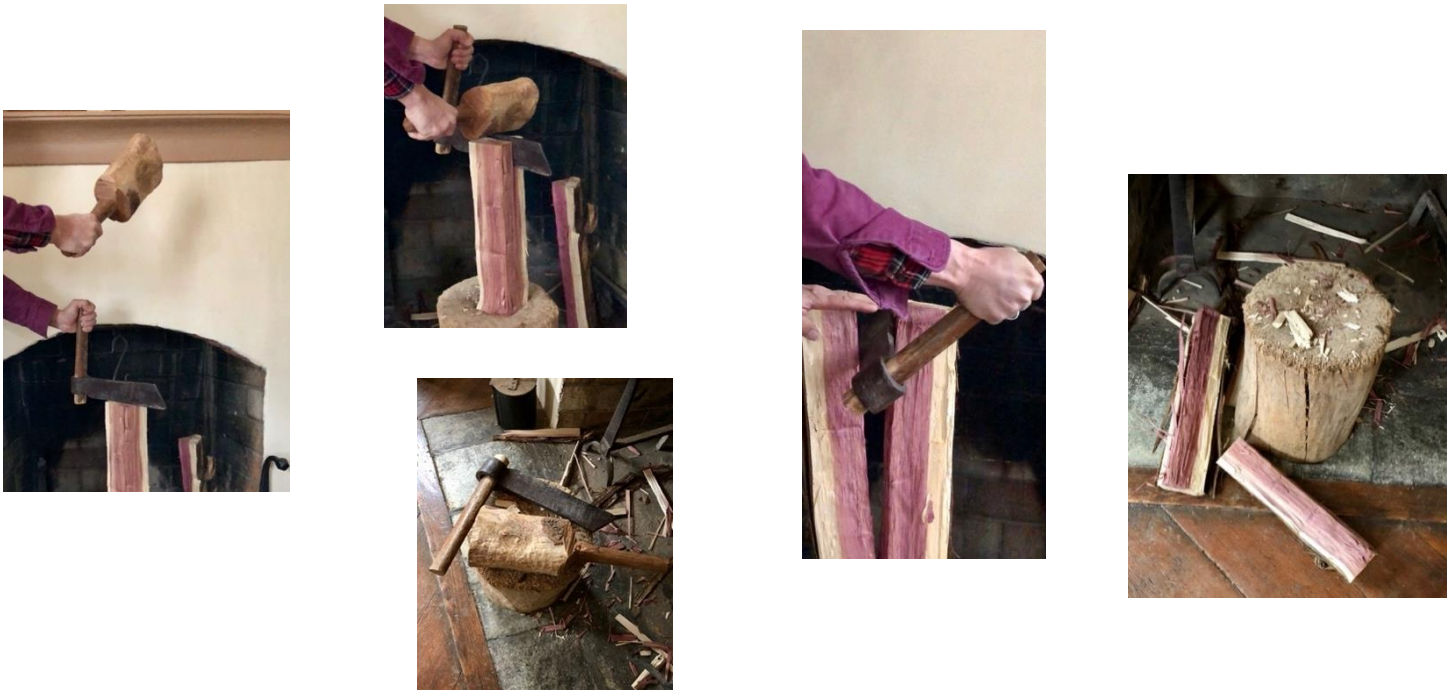
Grade 1 Science

Name: _____

Date: _____

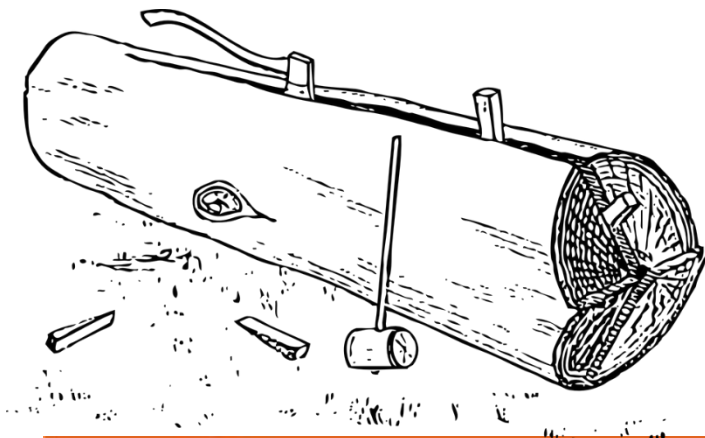
Activity 1:

In the video joiner Ben was using tools called a froe and maul to help him split the wood. Circle the pictures where a force has been applied.



Activity 2:

Split the log yourself! Make a log with play dough, use your fist as the maul and a plastic knife as the froe. Use the same forces that you watched in the video.



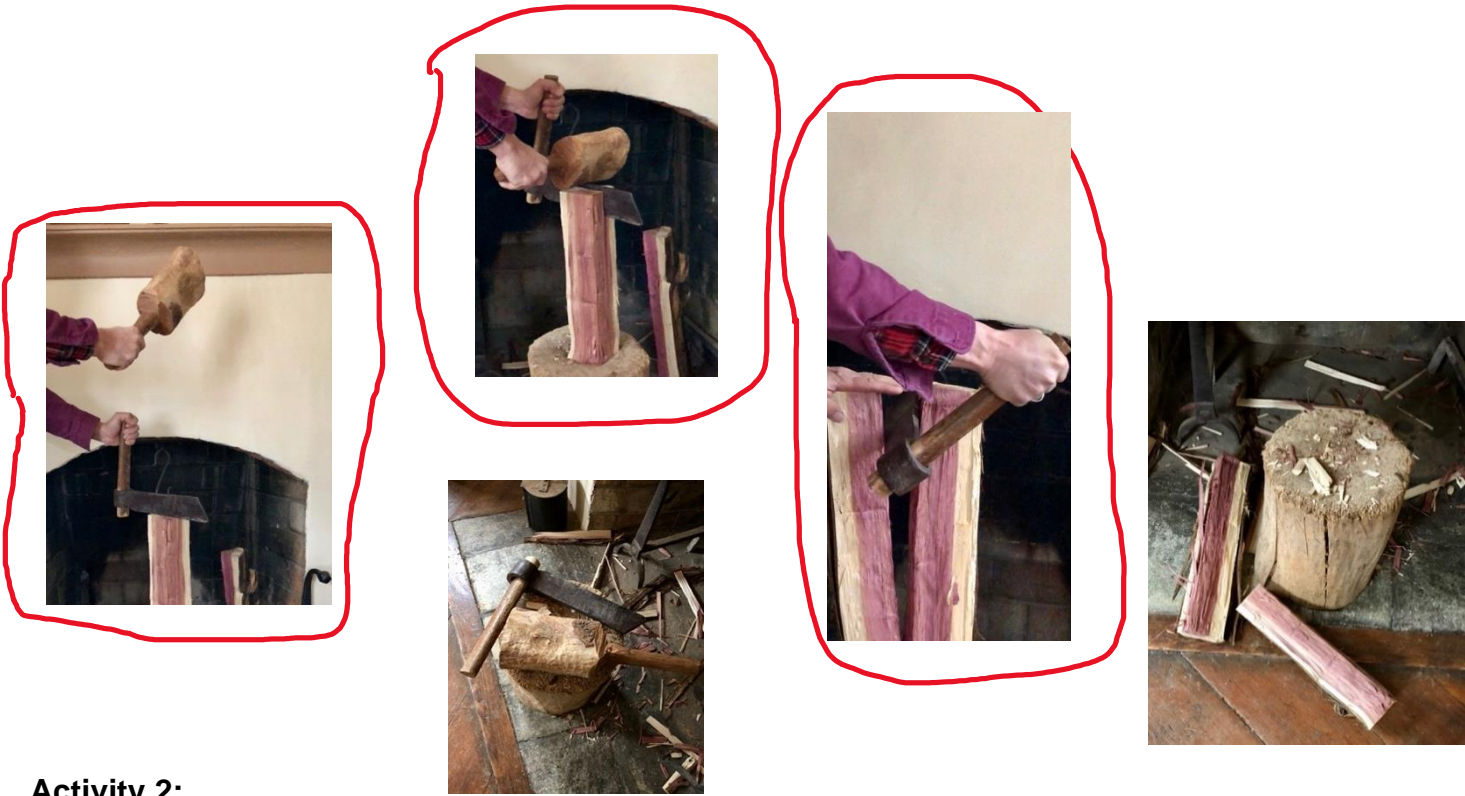
RIVING AND TURNING WITH SIMPLE MACHINES

Grade 1 Science

ANSWER KEY

Activity 1:

In the video joiner Ben was using tools called a froe and maul to help him split the wood. Circle the pictures where a force has been applied.



Activity 2:

Split the log yourself! Make a log with play dough, use your fist as the maul and a plastic knife as the froe. Use the same forces that you watched in the video.