

## Science Unit: Simple Machines

**Objective:** Students will learn and understand how simple machines work and make our lives easier.

### **Lesson 1:**

#### **Procedure:**

Introduce Simple Machines by using a K-W-L chart. List things they know about simple machines. Fill in what they want to know.

Introduce the booklet What Simple Machines Are These? Read and discuss.

✓ Fill in chart for what they learned.

Review the simple machines in the booklet. Explain they will make a flip-flop book to show 4 simple machines. Demonstrate how to do this. On the front they will put the name of the simple machine and draw a picture. Under the flap they will explain how it works and give an example of the machine. Explain they will learn about more simple machines in the activities they will do with their group in the days to come.

**Closure:** Answer question: What are simple machines? How do they make our lives easier? Have students share their flip-flop books.

### **Lesson 2, 3 & 4:**

#### **Procedure:**

Explain that for the next 3 lessons we will have 6 Work Stations to investigate Simple Machines. Divide the class into 6 groups. Assign each group a Work Station number. Allow enough time for the groups to finish the Investigations (20 minutes). After 20 minutes have them all rotate to the next station. Plan on 2 Stations/day.

**Station 1:** How Do You Lift A Lion? Use the Fiction Book Activity #1.

The group will complete the activity sheet and then read the book together.

**Station 2:** Science Discovery Activity #2: Machine Sort. The group will read the directions carefully and sort the machine picture cards.

**Station 3:** Science Discovery Activity Sheet #3 "Exploring Pulleys and Gears. The group will read the directions and put together a simple gear system.

**Station 4:** Science Discovery Activity Sheet #4 "On a Roll". Students will follow the directions on the activity sheet.

**Station 5:** The group will read the book Machines We Use together. After they have read the book they will complete the Nonfiction Book Activity #2: Write 5 facts you learned by reading the book.

**Station 6:** Word Search and Crossword Puzzle.

**Closure:** Question each group about their findings

**Lesson 5:**

**Procedure:**

Review the definition of simple machines. Distribute packet. Refer to the packet that contains lessons about: Position & Motion #51, Forces & Motion #52, Measuring Motion#53, Simple Machines #54, Gravity #55, and Magnets #56.

Read and discuss each short informative passage.

**Closure:** Students will complete the question(s) at the bottom of each passage.

**Lesson 6:** Review the simple machines they have learned about. Have them take out their flip-flop book and fill in the last machine.

**Closure:** Students will share their books.

**Assessments:**

1) Use the chart from **Nonfiction Book Activity #3-Understanding the Book**. Students will fill in the chart telling about the simple machines they learned about in this unit.

2) Students will draw their favorite simple machine and write a well developed 5 sentence paragraph about their favorite simple machine.

3) Use packet "Building a Tree House". Students will read the selection, answer the questions, and complete the vocabulary exercises.