

# A BIG DAY FOR BASEBALL

A Magic Tree House Adventure

## Forms of Energy

**Grade Level(s):** Grade 4

**Subject:** Science

**Florida Standards:** SC.4.P.10.1, SC.4.P.10.2

**Duration:** 30-40 minutes

**Activity:** Students will learn about the forms of energy used in baseball. Students will learn how the forms of energy are used in a baseball game by various players.

### Objectives:

- Understand the forms of energy
- Understand how forms of energy are used in baseball

### Materials:

- Whiteboard or paper
- Dry Erase Marker or pencil
- A Big Day for Baseball worksheet

### Procedures:

1. Pass out the student energy worksheet.
2. Show the Prezi presentation of energy used in baseball.  
[https://prezi.com/tywueat\\_2lgj/baseball-energy-transformation/](https://prezi.com/tywueat_2lgj/baseball-energy-transformation/)
2. Review with students the forms of energy. Discuss with students the forms of energy that could be used in baseball.
  - a. **Potential Energy**: starts with the baseball player eating healthy food.
  - b. **Kinetic Energy**: all of the energy the baseball player has stored up eating healthy food and now going to be released.
  - c. **Mechanical Energy**: when the pitcher has pitched the ball, the player hits the ball, it's the movement of the ball coming off the bat.



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- d. **Thermal Energy:** This type of energy is coming from the baseball player after he hits the ball and is creating body heat running to the bases.

3. Have students complete the worksheet either individually or with a partner.

### Assessment:

1. Assess students on the completion of the worksheet.



# Forms of Energy

Name \_\_\_\_\_ Date \_\_\_\_\_

**Directions:** Answer the following questions about the forms of energy used in a baseball game.

1. What form of energy do baseball players start using at the beginning of the game?

\_\_\_\_\_

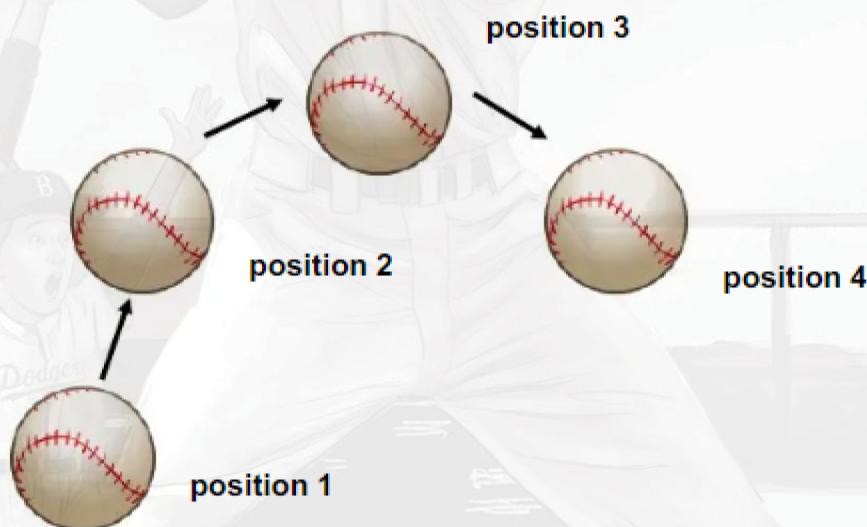
2. Use what you know about energy to find at least 3 examples of forms of energy that can be found at a baseball stadium.

A. \_\_\_\_\_

B. \_\_\_\_\_

C. \_\_\_\_\_

3. Look at the diagram below showing the movement of a ball which has been thrown upwards before falling back towards the ground.



In which position does the ball have the maximum kinetic energy?

\_\_\_\_\_