

A BIG DAY FOR BASEBALL

A Magic Tree House Adventure

Nature of Science

Grade Level(s): Grade 4

Subject: Science

Florida Standards: SC.4.N.1.1,
SC.4.N.1.2, SC.4.1.3, SC.4.N.1.4, SC.4.1.5, SC.4.1.6

Duration: 2-3 science blocks (Depends on how much time you have daily)

Activity: Students will go through the process of creating a project using the nature of science by doing a controlled experiment about the sport baseball.

Vocabulary:

- Controlled experiment
- Question
- Hypothesis
- Trial
- Observation
- Evidence

Objectives:

- .Raise and investigate questions about the natural world, use appropriate reference materials that support understanding to obtain information (identifying the source), conduct both individual and team investigations through free exploration and systematic investigations, and generate appropriate explanations based on those explorations

Materials:

- Whiteboard or paper
- Dry Erase Marker or pencil
- Student investigation worksheet

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Procedures:

1. Review the scientific method.
2. Review the procedures of a scientific experiment.
3. Explain the project to the students and what they are expected to do.
4. Put the students in groups of about 3-4 students to complete the project.
5. Teacher will give the students 2 questions to choose from for their project. (Students can word these questions differently, but here are 2 examples)
 - A. Which bat would be more useful for Jackie Robinson to use to hit the baseball farther?
 - B. When Jackie Robinson is pitching, which grip on the baseball is more efficient?
6. The students will fill in the student packet for their project and then present it to the class.

Assessment:

1. The completed scientific project