

Developing Science Skills II

Six science process skills are listed in the box below. Decide which science skills you would be using in each of the following problems. Write the name of the skill in the space provided.

SCIENCE PROCESS SKILLS

Observing and Comparing	Modeling and Simulating	Analyzing Data	Measuring
Classifying Data	Communicating Results	Making Predictions	

- _____ 1. You create a bar graph that shows the results of a class survey.
- _____ 2. You determine how many kilometers it is from your home to the park.
- _____ 3. You predict that your school’s basketball team will win their next game since they won the last three games in a row.
- _____ 4. You rearrange your video collection in alphabetical order.
- _____ 5. You see a squirrel jump from a tree to the rooftop of a house.
- _____ 6. You build a model of the *Titanic*.
- _____ 7. You draw a map of your city to scale.
- _____ 8. You prepare 2 cups of diced tomatoes to make a taco salad.
- _____ 9. You explain how to solve a logic puzzle to your sister.
- _____ 10. You reorganize the shirts in your closet by color.

Skill Challenge

Skills: describing, applying

On a separate sheet of paper, describe two examples of when you have used each science skill. Write your answers in complete sentences.

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| 1. Observing and Comparing | 3. Modeling and Simulating | 5. Analyzing Data and Communicating Results |
| 2. Classifying Data | 4. Measuring | 6. Making Predictions |

Answer Key

Developing Science Skills II

1. Analyzing and Communicating 2. Measuring
3. Making Predictions 4. Classifying 5. Observing
6. Modeling 7. Modeling 8. Measuring
9. Analyzing and Communicating 10. Classifying
Skill Challenge

Accept all reasonable answers. Possible answers:

Observing and Comparing: I saw a blue jay in a tree *or* Glenn and I stood back-to-back to compare our heights. **Classifying Data:** I reorganized all the books in my bookshelf by author *or* I arranged my model car collection by the car manufacturer.

Modeling and Simulating: I made a model of the Lincoln Monument out of Popsicle sticks *or* I used a software program in which I dissected a frog by following the directions on the monitor.

Measuring: I measured the dimensions of the classroom *or* I measured my height. **Analyzing Data and Communicating Results:** I made a bar graph of the data I collected on students' favorite sports and found that the most popular sport was soccer. **Making Predictions:** It has not snowed all winter long, so I predict that it will not snow tomorrow.