

Name \_\_\_\_\_

## The Scientific Method in Everyday Life

### Open-Ended Questions Answer Key

1. To improve basketball skills, one could start by asking questions like, "What specific skills do I want to improve?" Next, form hypotheses, such as, "Practicing dribbling drills for 30 minutes daily will improve my ball-handling skills." Conduct experiments by practicing and recording progress. Gather data on dribbling speed and accuracy and analyze it to see if the hypothesis is correct. Adjust the practice routine based on the results and share the progress with a coach or teammates for feedback.
2. Applying the scientific method in cooking allows you to create new recipes and improve existing ones. For example, you can ask questions about flavor combinations, form hypotheses about ingredient adjustments, conduct experiments by cooking and tasting, gather data on taste preferences, and draw conclusions to refine your culinary creations.
3. The scientific method can help you make healthier food choices by asking questions about nutritional content, forming hypotheses about which foods are more nutritious, conducting experiments by comparing food labels and ingredients, gathering data on nutritional values, and drawing conclusions to make informed choices.
4. To overcome a personal challenge, such as improving time management, you can use the scientific method. Start by asking questions about the challenge, form hypotheses about possible solutions (e.g., "Using a daily planner will help me manage my time better"), conduct experiments by implementing the solutions, gather data on your productivity and time management, and draw conclusions based on your experiences to refine your approach.

