

### Name That Motion Activity

**Directions:**

1. Open an internet browser and find your way to the following URL in the Shockwave Physics Studios section of The Physics Classroom web site.

http://www.physicsclassroom.com/shwave/namethat.html

2. From the opening screen, click on the Continue button to log on and begin the activity.
3. Enter your first and last name. If working with a partner (recommended), enter their first and last name. Then click the Start button.

**Enter your first and last name.**

**First Name:**

**Last Name:**

**If working with a partner on this activity, then enter your partner's first and last name.**

**Partner's First Name:**

**Partner's Last Name:**

4. Use the on-screen buttons (A-K, Replay, Erase, Check Answers) and field to complete the activity.

### Name That Motion

Name: John Doe

ID: —

Partner: Jane Doe

**DIRECTIONS:** Match each of the 11 motions to the appropriate verbal description. When all 11 matches are complete, click on the Check Answers button.

**Motion  
A  
Replay**



**Check Answers**

#Attempts: 1

#Correct: 0/11

Type a number in the blank to the right to match a verbal statement from your lab worksheet to the motion which appears in the animation window.

**Erase**

Use the buttons below to view a different motion and match it to a verbal statement.

**A B C D E F G H I J K**

Match →

The 11 verbal statements below must be matched to the 11 animations seen on the screen. Once all 11 matches have been made, you will be able to check your answers. You will be given feedback and can make alterations until all your answers are perfect.

**Verbal Statements:**

1. The object moves with a positive velocity and a positive acceleration.
2. The object moves with a constant negative velocity. Then, the object remains at rest for several seconds. Finally, the object moves with positive acceleration.
3. The object moves with a constant negative velocity.
4. The object moves with a negative velocity. Then, the object remains at rest for several seconds. Finally, the object moves with a low constant speed.
5. The object moves with constant speed in the positive direction.
6. The object slowly accelerates from rest. Then, the object remains at rest for several seconds. Finally, the object moves with a constant negative velocity.
7. The object moves at constant speed. Then, the object remains at rest for several seconds. Finally, the object moves with a constant negative velocity.
8. The object moves in the positive direction with a negative acceleration.
9. The object moves in the negative direction with a negative acceleration.
10. The object moves with a low speed for a short time interval. Then the object remains at rest for several seconds. Finally, the object rapidly accelerates with a positive acceleration.
11. The object moves with a negative velocity and a positive acceleration.

Use the space below to assist in organizing your answers and making corrections. The first two rows are provided as examples.

<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>I</b>	<b>J</b>	<b>K</b>
<b>3</b>	<b>1</b>	<b>5</b>	<b>10</b>	<b>4</b>	<b>2</b>	<del><b>6</b></del>	<b>8</b>	<b>11</b>	<del><b>9</b></del>	<b>7</b>
						<b>9</b>			<b>6</b>	