

# Force and Motion

## Assignment #3 Friction "The enemy of machines"

NAME: \_\_\_\_\_

Due Date: \_\_\_\_\_

Instructions: Read the information handout titled "Friction" and answer the questions in the spaces provided.

1. What is friction?

\_\_\_\_\_

2. Give 2 examples of everyday friction in your life?

\_\_\_\_\_

3. Friction always works (against) or (with) the direction of motion.

4. What does friction turn energy into?

\_\_\_\_\_

5. Describe what causes friction.

\_\_\_\_\_

6. Define lubrication.

\_\_\_\_\_

7. Using the information that you read, explain why you put oil in your car's engine.

\_\_\_\_\_

8. Explain how a ball bearing has reduced friction.

\_\_\_\_\_

9. Explain how a hovercraft has reduced friction.

\_\_\_\_\_

10. What does a hydrofoil do that reduces drag to make it different from a regular boat?

\_\_\_\_\_

### Feedback

<input type="checkbox"/> Not complete by due date	<input type="checkbox"/> Completed with accuracy	<input type="checkbox"/> Completed with detail
<input type="checkbox"/> Answers lacked effort and knowledge	<input type="checkbox"/> More explanation needed for some questions	<input type="checkbox"/> Excellent explanations given
<input type="checkbox"/> Shows little understanding of friction	<input type="checkbox"/> Shows good understanding of friction	<input type="checkbox"/> Shows excellent understanding of friction
<input type="checkbox"/> Redo/complete questions #'s	<input type="checkbox"/> Correct/improve questions #'s	<input type="checkbox"/> Improve questions #'s
<input type="checkbox"/> Parent signature required	_____	_____

