

Friction Assignment – Student Edition

I. True or False?

Decide if the following statements are true or false. Rewrite the false statements to make them true.

1. Friction always acts in the same direction that an object moves in.

2. Walking, cycling, and driving would not be possible without friction.

3. Friction transforms some kinetic energy into heat.

4. Static friction is greater than fluid friction.

5. Streamlined objects have more fluid friction than non- streamlined objects.

II. Vocabulary match up.

Match each term with its correct definition.

Definition	Term
1. The force which opposes motion.	a) Fluid friction
2. Friction occurring in liquids and gases.	b) Heat energy
3. Friction occurring when a solid object is resting on a surface.	c) Friction
4. Friction occurring between two smooth surfaces.	d) Rolling friction
5. The study of how drag affects solid objects.	e) Drag
6. Friction occurring in air and water	f) Sliding friction
7. The type of energy that kinetic energy is transformed into due to friction.	g) Aerodynamics
8. Friction occurring between an object with wheels and a surface.	h) Static friction

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III. Friction – Helpful or Unhelpful?

For each of the images below describe how friction is helpful or unhelpful. In cases where it is unhelpful, describe how friction can be overcome.

1.



2.



3.



4.


