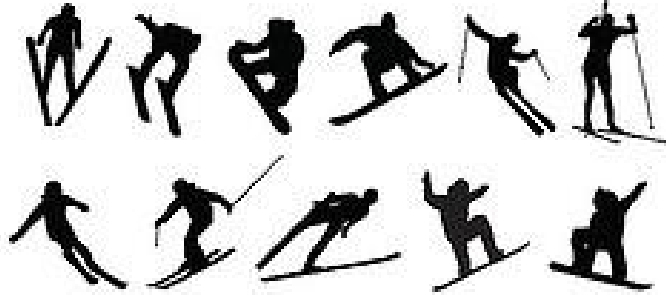




Name: _____ Date: _____

Hitting the Slopes



1. What type of potential energy do skiers take advantage of?
2. Draw a diagram of one of the events from the video. Label the locations of the athlete where
 - a. the greatest amount of potential energy is shown;
 - b. the least amount of potential energy is shown; and
 - c. an equal amount of potential and kinetic energy are shown.

Labeled Diagram



3. As the skiers move down the mountain, their potential energy is converted into what?
4. As the skiers travel down the slope, a portion of their total energy is lost. This means that when they perform their tricks, they will never go as high as they were when they first pushed off from the gate. Describe how this energy is lost.
5. In the ski jump, all skiers launch from the same location. What would cause them to have different amounts of potential energy?
6. Draw a diagram giving a skier an unfair advantage over the others. Include a description with your diagram.

Diagram

Description: