Lots of Potential Energy	Not a lot of Potential Energy

Explain why you think one has more potential energy

Lots of Kinetic Energy	Not a lot of Kinetic Energy

Explain why you think one has more kinetic energy

1. Do you think the Skater will make it over the first hump?
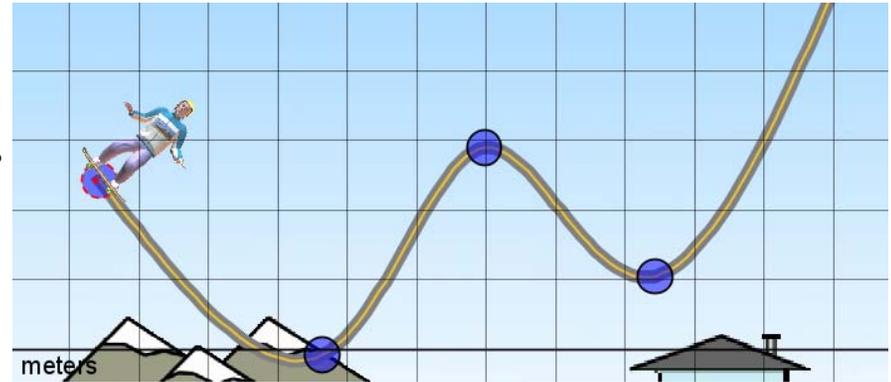
(No friction on the track)


A. No, because his potential energy will be converted to thermal energy

B. No, because he doesn't have enough potential energy

C. Yes, because all of his potential energy will be converted to kinetic energy

D. Yes, because some of his energy will be potential and some kinetic

# 2. Do you think the Skater will make it over the first hump?
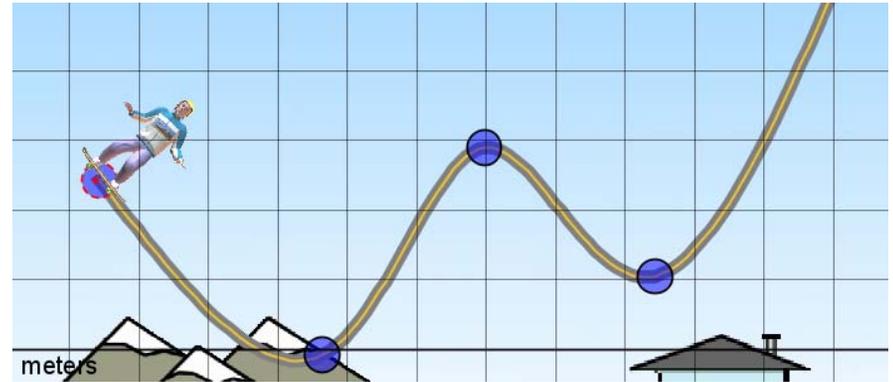
(lots of track friction)

A. No, because his potential energy will be converted to thermal energy

B. No, because he doesn't have enough potential energy

C. Yes, because all of his potential energy will be converted to kinetic energy

D. Yes, because some of his energy will be potential and some kinetic

# 3. Do you think the Skater will make it over the first hump?
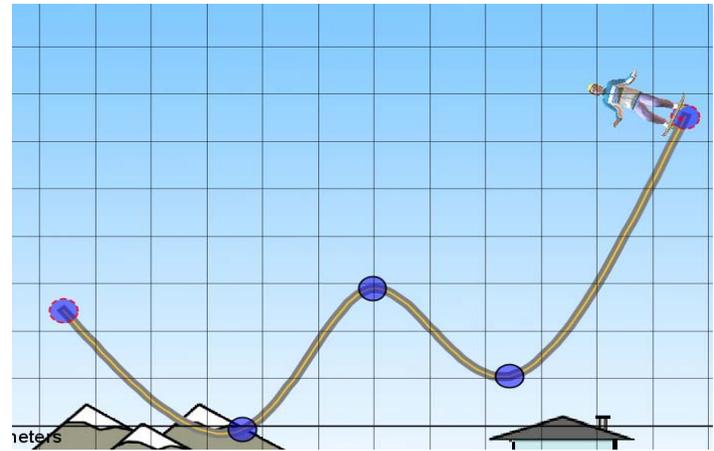
(No friction on the track)

A. No, because his potential energy will be converted to thermal energy

B. No, because he doesn't have enough potential energy

C. Yes, because all of his potential energy will be converted to kinetic energy

D. Yes, because some of his energy will be potential and some kinetic

# 4. Do you think the Skater will make it over the first hump?

(lots of track friction)
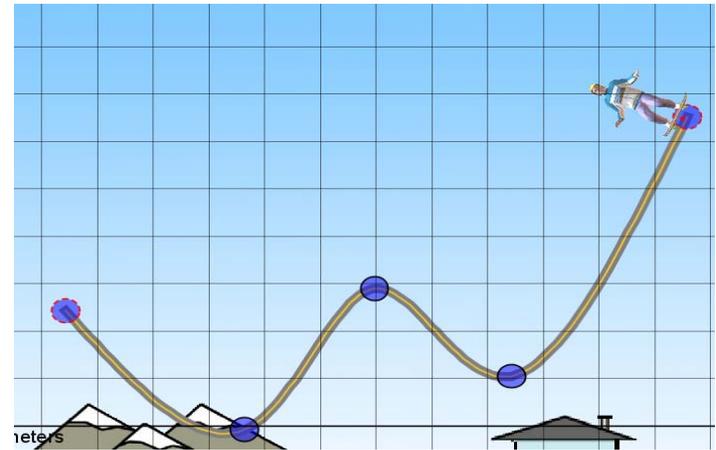
A. No, because his potential energy will be converted to thermal energy

B. Yes, if not too much energy is converted to thermal

C. Yes, because all of his potential energy will be converted to kinetic energy

D. Yes, because some of his energy will be potential and some kinetic

# 5. In the next moment, the KE piece of the pie gets larger, then
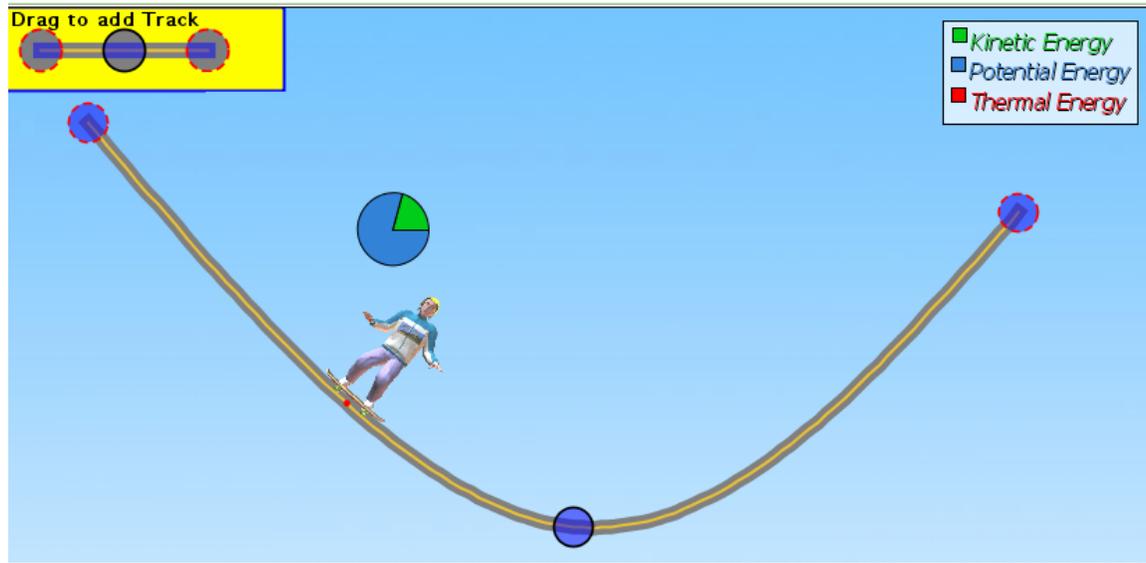
A. The Skater is going up hill (left)

B. The Skater is going down hill (right)

C. There is no way to tell

6. In the next moment, the KE piece of the pie gets larger, then
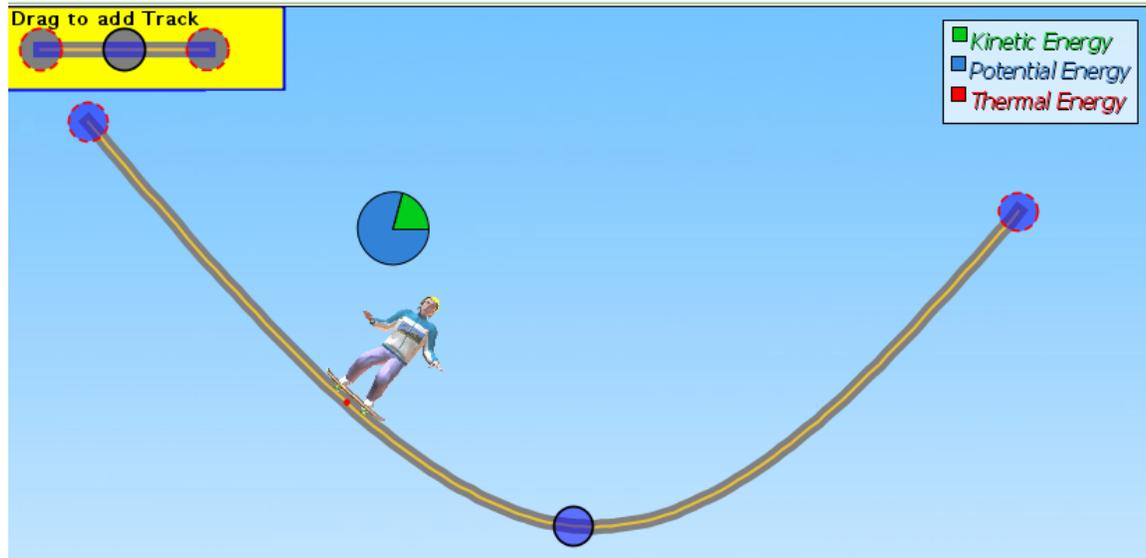
A. The PE part stays the same

B. The PE part gets larger too

C. The PE part gets smaller

D. There is no way to tell

7. In the next moment, the KE piece of the pie gets larger, then
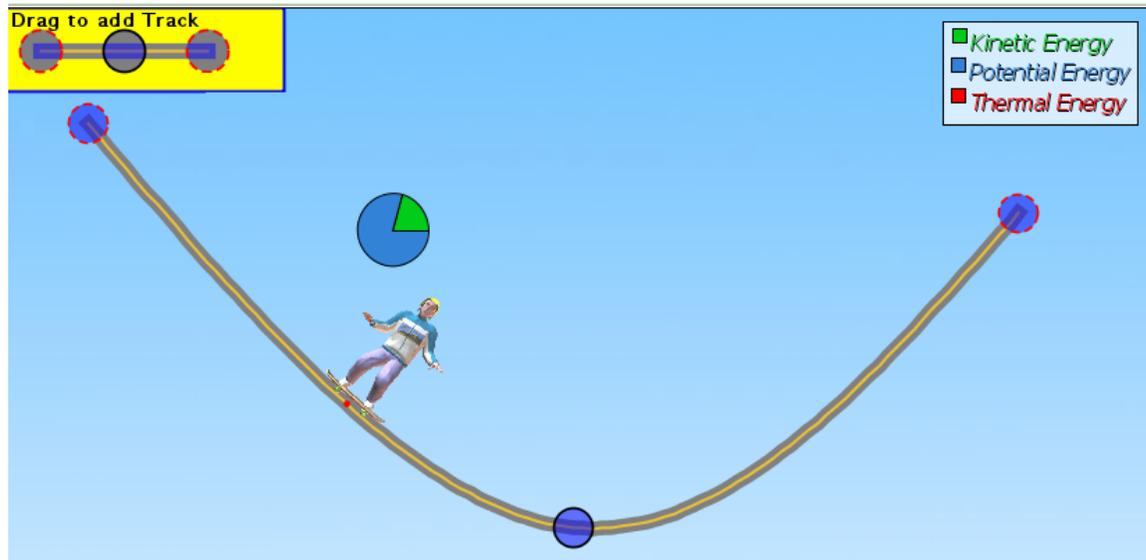
A. The Skater will be going faster

B. The Skater will be going slower

C. There is no way to tell