

STANDARD: HS.P.E.38

Name: Answer Key Period: _____ Date: _____

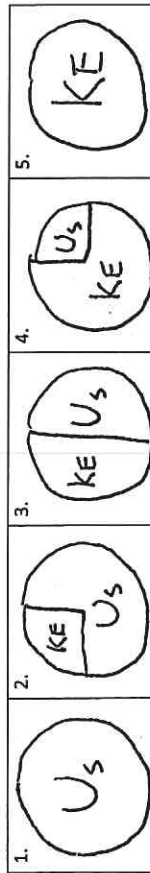
HS.P.E.38 Assessment

1. In each of the following situations, draw pie graphs that represent the way the type and total amount of energy in the system changes. Use U_g , U_s , and KE for your energies.

U_g = Gravitational Potential Energy
 U_s = Elastic Potential Energy
 KE = Kinetic Energy

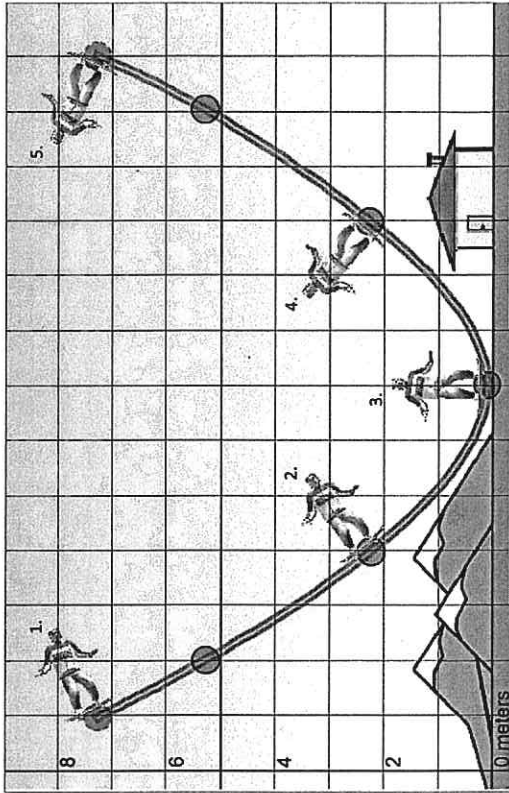
HS.P.E.38 I can use words, diagrams, pie charts, and bar graphs to represent the way the type and total amount of energy in a system changes (or doesn't change).

- a. A truck is pulled back until it is all wound up. It is then let go and accelerates to the right.



* pie charts most show an increase in KE over time and a decrease in U_s over time

- b. A skater rolls down a half pipe and goes up the other side.



* situations 2 and 4 have to be identical.