7.3 Principle of Conservation of Energy

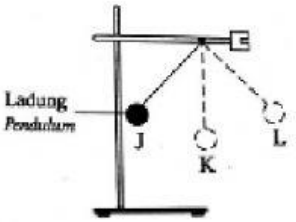
1. Complete the principle of conservation of energy below:

form	changed	created	equal	destroyed

a) The Principle of Conservation of Energy states that energy cannot be _____ or _____ but can only be _____ from one _____ to another.

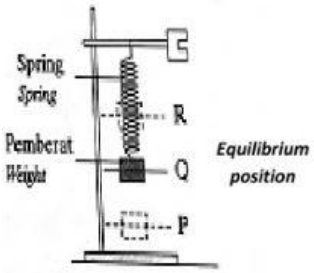
b) The amount of energy before the changes is _____ to the amount of energy after the changes.

2. State the change in the form of energy:



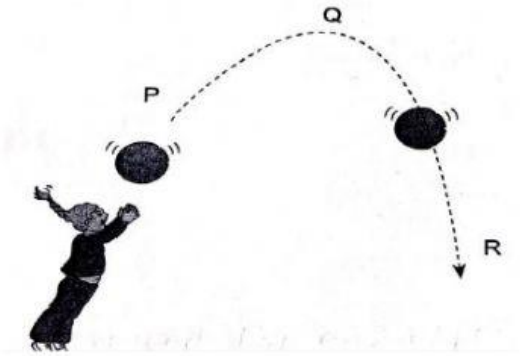
Direction of oscillation	Changes in the form of energy
J → K	_____energy → _____ energy
K → L	_____energy → _____energy

3. State the amount of energy:



Position of spring	Amount of energy	
	Elastic potential energy	Kinetic energy
P → Q		
Q → R		
R → Q		

4. State the types of energy possessed by the ball at point:



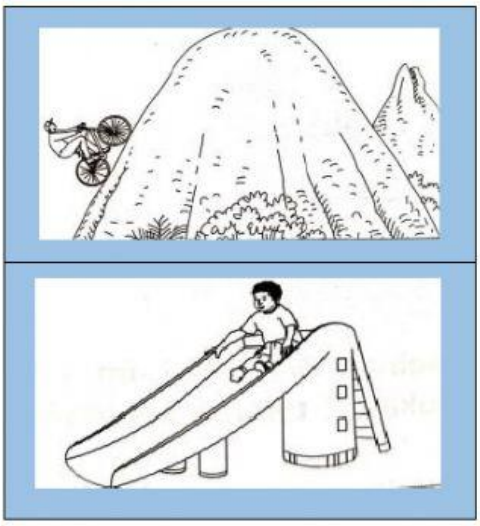
P : _____energy

Q: _____ energy

R: _____ energy

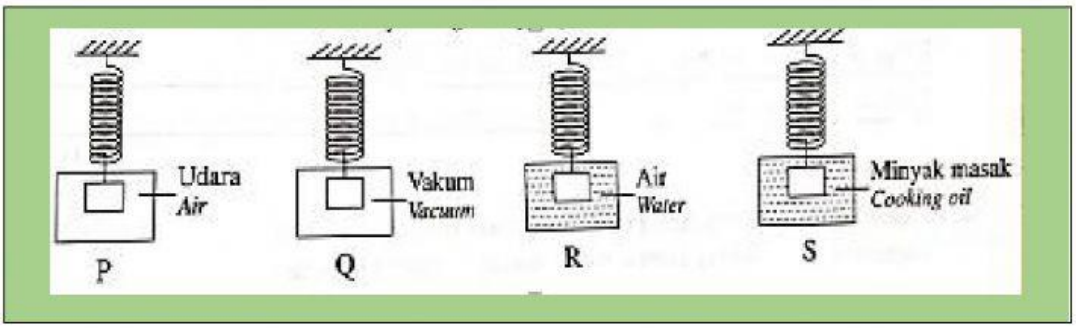
LIVEWORKSHEETS

5. Match the diagram below to the energy changes that occur.



Potential energy to kinetic energy
Kinetic energy to potential energy

6. The following diagram shows the oscillationof a weighted spring in different media.



a) State the energy change in the oscillating system.

[ ] → [ ] → [ ]

b) Which of the springs, P,Q,R or S will stop oscillating first? Give one reason for your answer.

[ ] will stop first. A lot of energy is used to overcome _____.

[ ] has the biggest _____.

LIVEWORKSHEETS