Refaa School G4 **Science** Ms. Arwa Al Mussabi

Book Unit 1 Lesson 2 **Speed & Energy** page 30 - 32

ST name: ..... G 4 \ .....

Q1:Connect the term to its meaning:

1-Its stored energy and waiting to work.

2- Its energy of motion or working.

3- Is the ability to do work.

Kinetic Energy

Energy

Potential Energy

Q2: Choose correct type of energy to solve this statement:



1- The apple in the table is a- Potential b- Kinetic energy.

2- The apple falling from the table is a- Potential b- Kinetic energy.



3- If the boy throws the ball is a- Potential b- Kinetic energy.

4- The ball on the boy's hand is a- Potential b- Kinetic energy.

Q 3: Choose correct answer:

1-The ..... energy of a roller coaster is the energy of its motion.

a-Potential b- Kinetic.

2- If the amount of kinetic energy an object has is ..... , then the object will move faster.

a-Increase b- Decrease

3- Tigers can run faster than turtles, tigers move with more ..... energy than turtles.

a- Potential b- Kinetic.

4- How can the speed of a dropped ball be increased

a-Drop a larger ball. b-Decrease the heigh. c- Increase the height.

5-Stretching a coil or spring increases its .....

a-Potential energy b-Kinetic energy

c-Direction d-Speed

LIVEWORKSHEETS

6-Suppose you are riding a bike. As you increase speed, your …..

a-energy of motion increases

b-energy is used up

c-energy of motion decreases

d-stored energy increases

7-The energy of motion is depend on ……

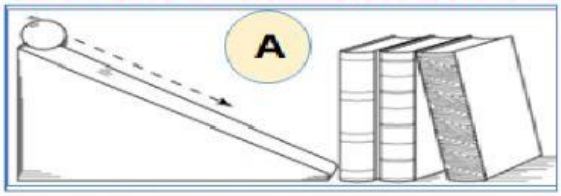
a- Object's position above a surface.

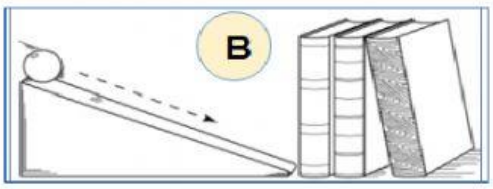
b-Object's speed only.

c-Object's mass only.

d-Both object's speed and mass.

Q3: Look to picture then choose correct answer:





1- If you roll a ball down each ramp, which ball will hit the books harder? Circle answer

A Or B

2- Why this happened? Choose correct answer: 1 Or 2

1-In A the ramp taller than B so higher give more speed and more energy.

2-In B the ramp shorter than B, so lower give more speed and more energy.

Q4: Look to diagram in your book page 32 then Connect the description to each number on the roller coaster track.

انظر للصورة في كتابك صفحة ٣٢ ثم وصل كل شرح للرقم الصحيح وفقا لأرقام الصورة

As cars go down hill, potential energy decreases. Kinetic energy increase as cars gain speed.

1

Cars are moving slowly, they have little kinetic energy and potential energy as they come to a stop.

2

Cars gain potential energy as they are pulled to top of the first hill.

3

LIVEWORKSHEETS