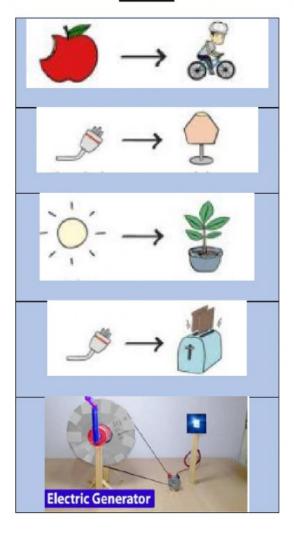
First Name:	Last Name =	Period:	Date:	School

Force, Motion, Energy Resources and Transformation Bassett Test Review II

Question 1

Instructions: Join with the line the picture with correct energy transformation

Picture



Energy Transformation

>Radiant Light to chemical

>Electrical to heat

>Mechanical to light

>Electrical to light

Question 2			
The law of C	onservation	of energy:	
		nergy states <u>energy</u> can ed from one form to anot	
Instructions: U	Jse the above	statement to complete th	ne missing parts.
The law of		of	
	_states		be
created or		but may be	from
one	to		

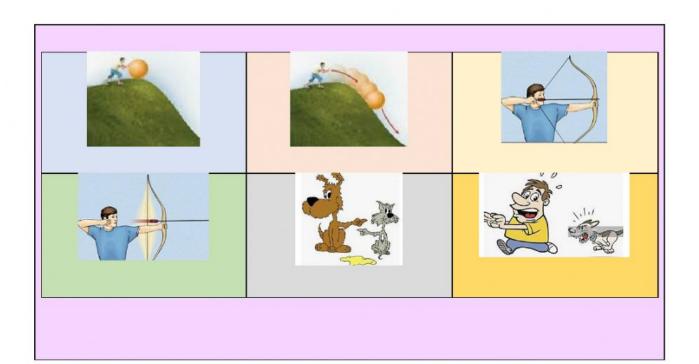
Potential Energy:

- Stored energy
- The higher an object is at, the more Potential energy

Kinetic Energy:

- Released energy
- The faster an object is going, the more Kinetic energy

Instructions: Label "potential energy" or "kinetic energy"



Hint:

- >The higher the more PE
- > the faster the more KE

Instructions: Use the labels A, B, C and D to label the correct Potential and kinetic energy "amount" on the picture

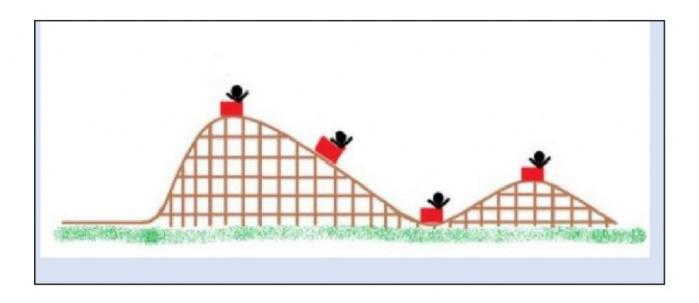
A

KE=100 max PE = none В

KE = none PE=100 max C

KE= 50% PE=50 % D

KE= 75% or 3/4
PE= 25% or 1/4

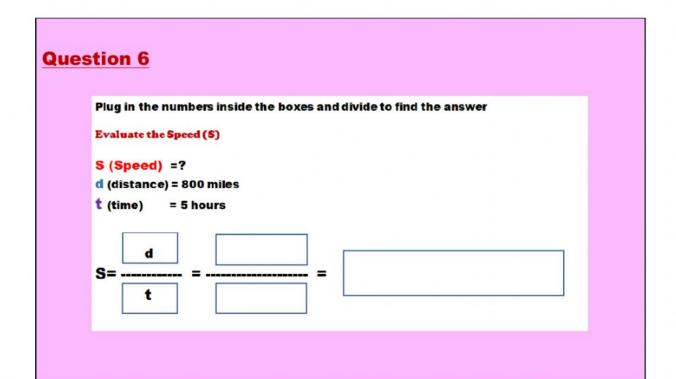


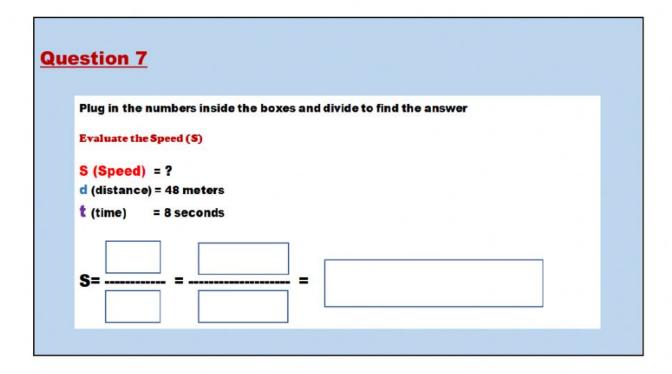
Questions 5 (from yesterday)

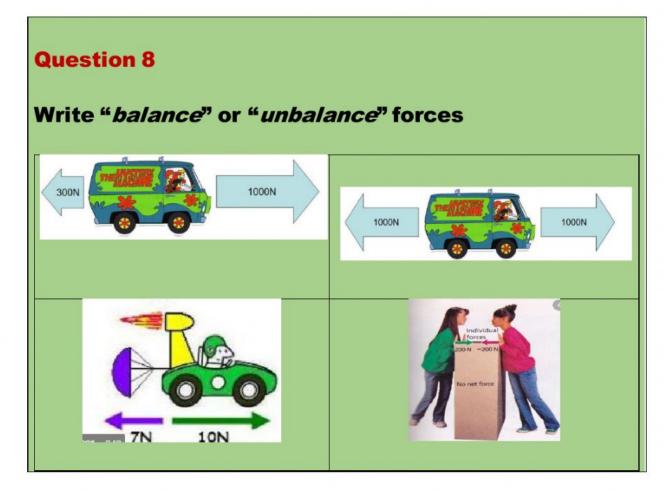
Inertia: the bigger - the more difficult to stop-the more inertia **Energy:** the bigger – the more energy- the more inertia

- 4-1. Which object has more energy -Inertia and more difficult to stop?
 - a) huge truck b) bike c) toy car
- 4-2. Which object would be more difficult to move from start because it has more inertia)?
 - a) huge truck b) bike c) toy car
- 4-3. Which is true
 - a) Heavy objects have less inertia b) heavy object have more inertia
- 4-4. Which object have less Inertia
 - a) real airplane
- b) paper airplane
- 4-5. Which object would have more Potential energy?
 - a) an airplane flying 2 miles above b) an airplane flying 7 miles above

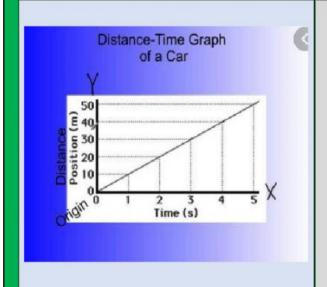
.....







Use graphs to find the distance, the time, and the speed



Find the average speed

Step 1 : Distance at 5 sec

Step 2: Time at 50 meters

Step 3:

speed = distance time

Question 10



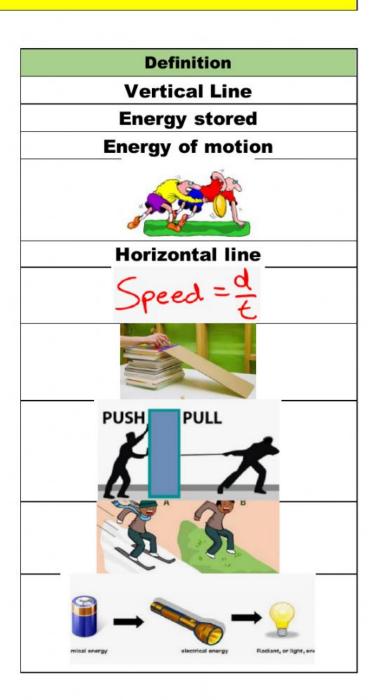
Which path-trajectory of the cannon ball is correct?

- a) first the ball speeds up and it never stops
- b) first speeds up, then it slows down at the top, change direction, and finally speeds up until it hits the ground.
- C) Ask Alexa, Google, Siri or your teacher

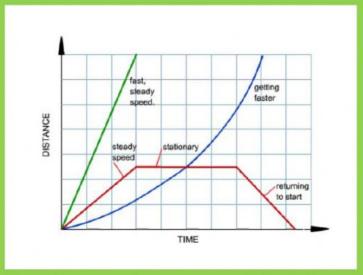
Vocabulary

Match the word with the definition by writing the correct letter

Word
1.X-axis
2. Force
3.Y axis
4. Unbalanced
5. Friction
6. Energy
transformation
7. Potential
Energy
8. Kinetic Energy
9. Inclined plane
10. Speed formula



Practice: Understanding the distance vs time graph



Instructions: Use the graph on top to label the missing parts

