

ACTIVITY: PHYSICAL WORLD

1. Circle the letter of the best answer

1. The type of energy in this dynamite is:

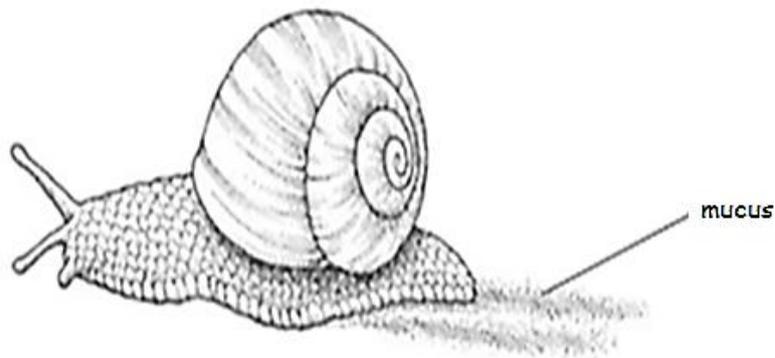


- a. gravitational
 - b. elastic
 - c. electrical
 - d. chemical
2. Which of the following is **not a disadvantage** of using fossil fuels as a source of energy?
- a. renewable sources.
 - b. pollute the environment.
 - c. harm the ozone layer.
 - d. takes time to form.
3. Where will the block in the diagram moves?



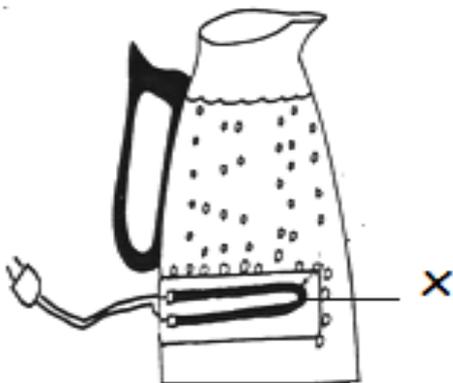
- a. moves to the left
- b. moves to the right
- c. stays still
- d. the block will spin

4. Which of the following **forms of energy** is released or absorbed in most chemical reactions?
- a. light
 - b. electrical
 - c. sound
 - d. heat
5. Snails produce mucus to help them move along the ground.



How does mucus help snail to move?

- a. mucus leaves a trail
 - b. mucus is cold
 - c. it reduces friction
 - d. it increases weight
6. Which of the following is TRUE about the diagram?



- a. filament: change electricity into heat.
- b. element: change electricity into light.
- c. filament: change light into heat.
- d. element: change electricity into heat.

2. Write the letter of the correct description from Column B beside each term in Column A

Column A

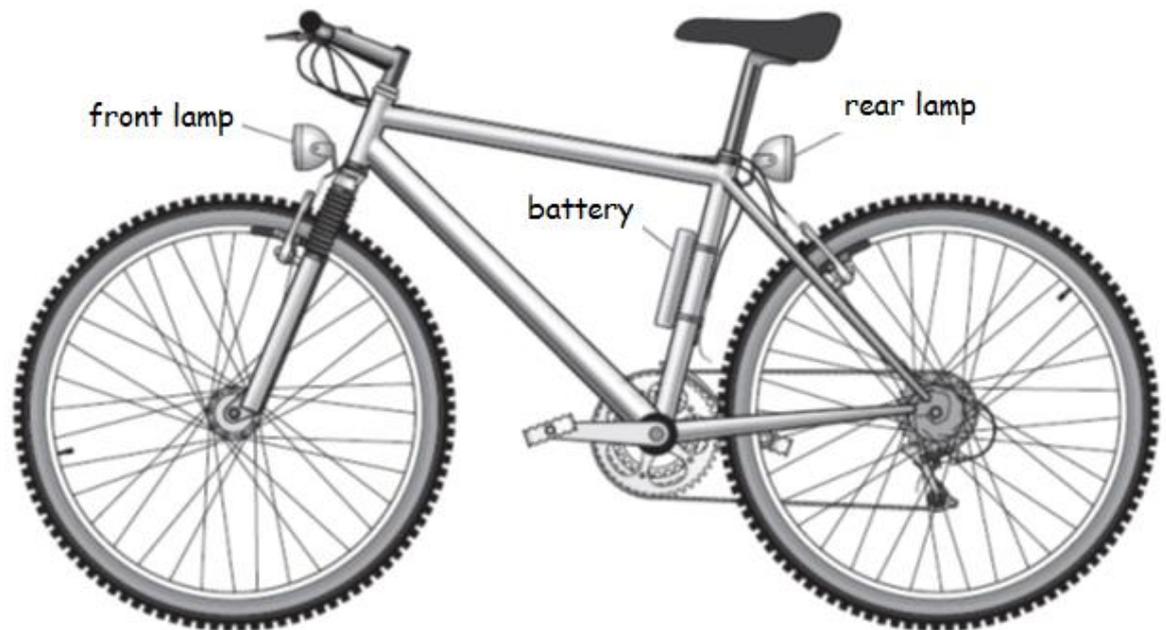
1. _____ Energy
2. _____ kinetic →chemical →sound
3. _____ elastic energy →Movement
4. _____ Argon
5. _____ paddle wheel
6. _____ filament
7. _____ $\frac{10}{6} \text{ m/s}^2$
8. _____ Fluid friction
9. _____ unbalance force
10. _____ 6.0×10^7 Joules

Column B

- a. gas used in light bulb
- b. a resistance wire
- c. force of gravity
- d. airplane flying
- e. speed up, slow down, change direction
- f. cannot be created nor destroyed
- g. energy needed to break earth gravitational field.
- h. push the plunger of syringe
- i. pushing a box along the floor
- j. unit for energy
- k. moving snow
- l. gravitational force on the moon
- m. gun is fired
- n. heat energy to kinetic energy

3. Answer all questions in the spaces provided.

1. This is Mr Lemoto's bicycle. The bicycle has a front and rear lamp. Mr Lemoto replaced the lamp with a generator called a dynamo.



When he pedaled his bicycle the back wheel turns the generator.

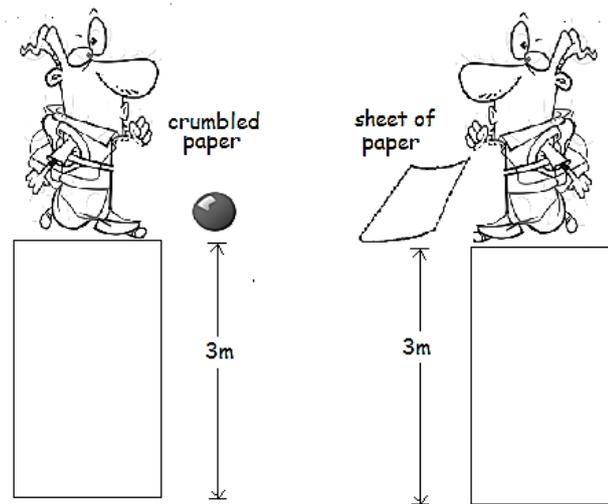
Fill in the gaps using the word from the box.

(3)

chemical	electrical	gravitational	kinetic	increase	light
sound	heat	decrease	gravity		

- a. As Lemoto pedals, _____ energy in his muscles is changed to _____ energy.
- b. When the generator turns, kinetic energy is changed to useful _____ energy in the wires. This energy in the wires is changed to useful _____ energy in the bulb.
- c. When the lamps are on, some of the energy in the bulb is wasted as _____ energy.
- d. The pattern on the tyre is to _____ the friction of the wheel and the road.

2. Study the diagram below and answer the questions that follow.



a. Explain what will happen to the crumpled paper and the sheet of paper when dropped from the **same height** at the **same time**.

b. Give your reasons for your answer given in (a) above.

3. Write down two (2) ways of how to **reduce friction**.

i.

ii.
