



# ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



**Sub: Physical Science**

**Class: 8**

**Date: 22.06.20**

**Duration: 40 min**

**Worksheet 44**

**Full Marks: 15**

## ENERGY

**Choose the Correct options:**

- Friction can create...
  - thermal energy
  - kinetic energy
  - nuclear fission
  - electrical energy
- What is it called when one form of energy is changed to another form?
  - Energy change
  - Energy conversion
  - Electrical conversion
  - Force change
- What kind of energy are you taking in when eating food?
  - Thermal
  - Sound
  - Chemical
  - electrical
- What is energy?
  - the ability to do work
  - mass and volume
  - rate of doing work
  - rate of change of speed
- What is the energy of motion?
  - Radiant
  - Kinetic
  - Geothermal
  - potential
- Any energy conversion will always result in what form of energy?
  - Potential
  - Sound
  - Radiant
  - thermal
- What is the energy of moving electrons?
  - Nuclear
  - Thermal
  - Sound
  - electrical

8. When is kinetic energy GREATEST on a roller coaster?
- (a) at the top of the highest hill
  - (b) at the bottom of the highest hill
  - (c) at the end of the ride
  - (d) at the beginning of the ride
9. Energy...
- (a) is the ability to do work or cause a change
  - (b) is all the movement in the universe
  - (c) cannot be created or destroyed
  - (d) all of the above
10. What type of energy is stored inside a battery?
- (a) elastic potential energy
  - (b) gravitational potential energy
  - (c) chemical potential energy
  - (d) kinetic energy
11. Which is an example of potential energy?
- (a) A car sitting at the top of a hill
  - (b) A kite flying in the air
  - (c) A fox chasing a mouse
  - (d) A bowling ball rolling
12. The main source of energy for our planet is/are
- (a) the sun.
  - (b) the earth's core.
  - (c) greenhouse gases.
  - (d) cosmic background radiation.
13. What energy transformation occurs in the flashlight when it is on?
- (a) heat-->magnetic-->light
  - (b) chemical-->magnetic-->light
  - (c) chemical-->electrical-->light
  - (d) mechanical-->electrical-->light
14. Which of the following has the most potential energy?
- (a) A car at the top of a hill
  - (b) A car speeding down the hill
  - (c) A person at the top of a hill
  - (d) A car at sea level
15. What energy is pulling an arrow back
- (a) kinetic energy
  - (b) potential energy
  - (c) electrical energy
  - (d) magnetic energy