



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



Sub: Physical Science

Class: 8

Date: 22.06.20

Duration: 40 min

Worksheet Solution 44

Full Marks: 15

ENERGY

Choose the Correct options:

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