

Forms of energy:

1. _____ is the ability to do work. Energy Food

2. _____ gives us energy. Energy Food

3. All forms of energy can be grouped into _____. 4 2

4. They are _____ energy and _____ energy.

Mechanical/electrical Kinetic/Potential

5. An object that is moving has _____ energy. Kinetic potential

6. An object that is not moving has _____ energy. Kinetic potential

7. The energy that we get from the sun is called _____ energy.

Solar Wind

8. We get _____ and _____ from the sun.

Heat/water Heat/light

9. Energy that we get from wind is called _____ energy.

Wind energy Gravitational energy

10. Energy that we get from moving water is called _____ energy.

Solar energy Hydroelectric energy

11. Energy that we get from nuclear reaction is called _____ energy.

Nuclear energy Chemical energy

12. Energy that we get from chemical reaction is called _____ energy.

Nuclear energy Chemical energy

13. Energy that we get from moving electrons is called _____.

Electricity mechanical energy

14. Heat energy is called _____ energy.

Thermal energy Wind energy

15. When a reaction results in nuclei coming together, it is known as

_____.

Nuclear fusion Nuclear Fission

16. When energy is released by splitting a nucleus, it is known as

_____.

Nuclear fusion Nuclear Fission

17. The changing between kinetic and potential energy, it is known as

_____.

Mechanical energy standard energy

18. Breaking down of food (digestion) which results in energy is known as

_____.

Radiant energy Chemical energy

19. The fact that energy can neither be created nor destroyed but only can change from one form to another is known as

_____.

Conservation of energy conservation of mass

20. Kinetic energy can be calculated using the formula

_____.

$\frac{1}{2}mv^2$ mgh

21. Potential energy can be calculated using the formula

_____.

$\frac{1}{2}mv^2$ mgh

Calculate the kinetic energy in joules for the following.

1. A 800 Kg wooden block moving at 2 m/s.

Calculate the potential energy in joules for the following:

2. A 500 Kg ball at a height of 10km. Use 9.8m/s^2 for gravity

