

Forms of energy:

1. _____ is the ability to do work.

Energy	Food
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2. _____ gives us energy.

Energy	Food
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3. All forms of energy can be grouped into _____.

4	2
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4. They are _____ energy and _____ energy.

Mechanical/electrical	Kinetic/Potential
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5. An object that is moving has _____ energy.

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

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

Solar	Wind
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8. We get _____ and _____ from the sun.

Heat/water	Heat/light
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9. Energy that we get from wind is called _____ energy.

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

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

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

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

Electricity	mechanical energy
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14. Heat energy is called _____ energy.

Thermal energy	Wind energy
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15. When a reaction results in nuclei coming together, it is known as _____.

Nuclear fusion	Nuclear Fission
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16. When energy is released by splitting a nucleus, it is known as _____.

Nuclear fusion	Nuclear Fission
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17. The changing between kinetic and potential energy, it is known as _____.

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

Radiant energy	Chemical energy
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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
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20. Kinetic energy can be calculated using the formula _____.

$1/2 \times m \times v^2$	$m \times g \times h$
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21. Potential energy can be calculated using the formula _____.

$1/2 \times m \times v^2$	$m \times g \times h$
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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 9.8 m/s^2 for gravity

