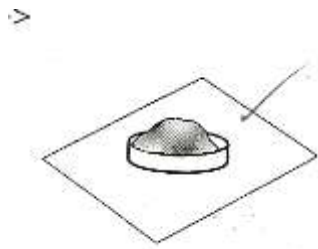


Energy Changes 1

_____ makes things happen.
Energy cannot be _____ or _____.
Energy can be _____ from one form into another.

Experiment 1 – Glycerol + Crushed potassium permanganate

_____ energy → _____ energy
 turns into



The chemicals gave _____ and _____ when put together.

Experiment 2 – Catapult

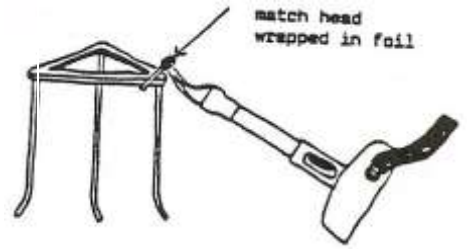
_____ energy → _____ energy
 turns into



When you stretch the spring, it stores _____ energy.

Experiment 3 – Heated match head

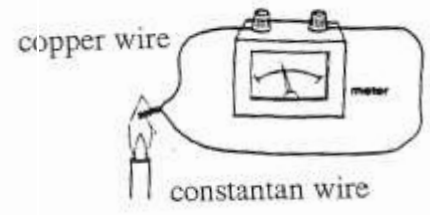
_____ energy → _____ energy
 turns into



The match _____ when heated.

Experiment 4 – Thermocouple

_____ energy → _____ energy
 turns into



When the thermocouple was heated, the meter needle _____, showing that _____ energy was generated.

Experiment 5 – Magnesium metal burned

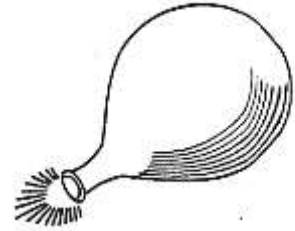
_____ energy $\xrightarrow{\text{turns into}}$ _____ energy



Magnesium metal burns with a _____, _____ flame.

Experiment 6 – Inflated balloon

_____ energy $\xrightarrow{\text{turns into}}$ _____ energy

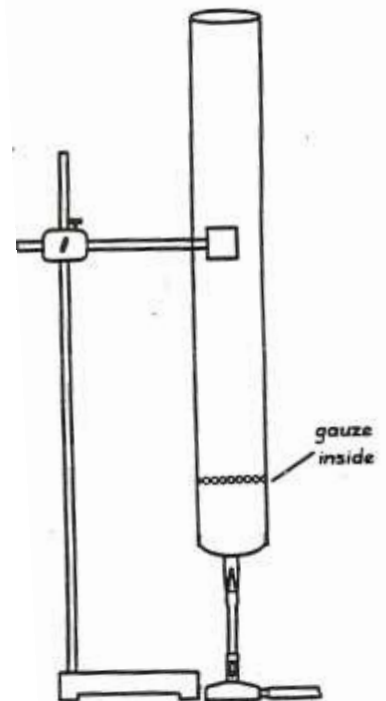


When you inflate the balloon, it stores _____ energy.
When you let go, this turns into _____ energy.

Experiment 7 – Empty tube heated

_____ energy $\xrightarrow{\text{turns into}}$ _____ energy

When the Bunsen burner was placed underneath the tube, a _____ was made.



Experiment 8 Rub your finger on the bench

Describe the energy change.

_____ energy $\xrightarrow{\text{is changed into}}$ _____ energy.



Energy Changes 2

Experiment 9

Shake the tin with the nails in it.

Describe the energy change.

_____ energy \longrightarrow _____ energy.
is changed into



Experiment 10

Move the clamp stand so the spiral is above the Bunsen burner.

Describe the energy change.

_____ energy \longrightarrow _____ energy.
is changed into



Experiment 11

Wind up the spring in the clockwork toy, or pull it back on the bench. The wound up spring has elastic potential energy.

Describe the energy change.

_____ energy \longrightarrow _____ energy.
is changed into

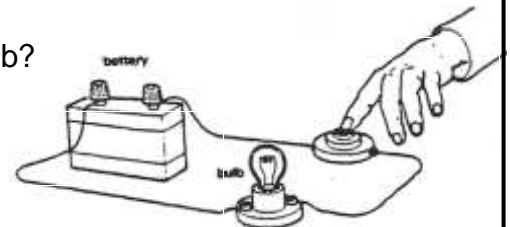


Experiment 12

Turn on the switch. What happens to the bulb?

Describe the energy change.

_____ energy \longrightarrow _____ energy.
is changed into

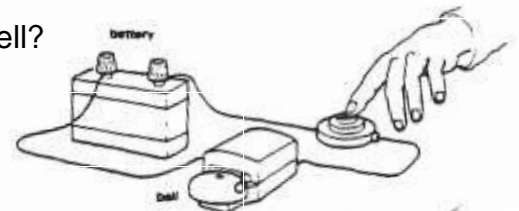


Experiment 13

Turn on the switch. What happens to the bell?

Describe the energy change.

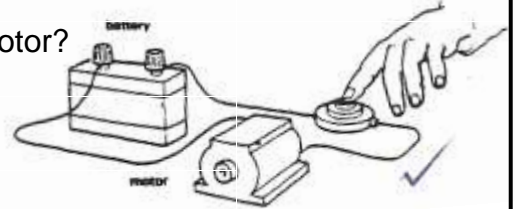
_____ energy \longrightarrow _____ energy.
is changed into



Experiment 14

Turn on the switch. What happens to the motor?

Describe the energy change.

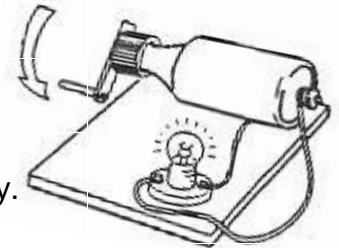


_____ energy is changed into _____ energy.

Experiment 15

Turn the handle on the dynamo.

Describe the energy change.



_____ energy is changed into _____ energy.

We know that _____ energy is changed into _____ energy in the dynamo, because this energy changes into _____ energy in the _____.

Experiment 16

Pull the metal wire and let go.

Describe the energy change.



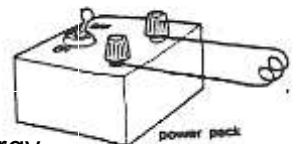
_____ energy is changed into _____ energy.

Experiment 17

A coil has been connected to a power pack. Switch on the power pack. What happens to the coil?

Describe the energy change.

DO NOT TOUCH COIL!

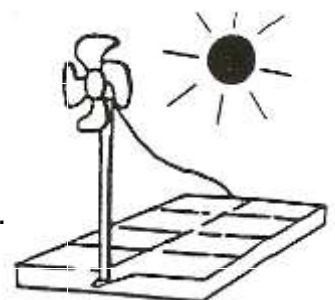


_____ energy is changed into _____ energy.

Experiment 18

Turn the photocell so that it faces the sunlight from the window.

Describe the energy change in the photocell.



_____ energy is changed into _____ energy.

We know that _____ energy is changed into _____ energy in the photocell, because this energy changes into _____ energy in the _____.