

**Energy is the
ability to move
or change
matter.**

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**Forms of
energy:**

Light - bulb, sun, fire

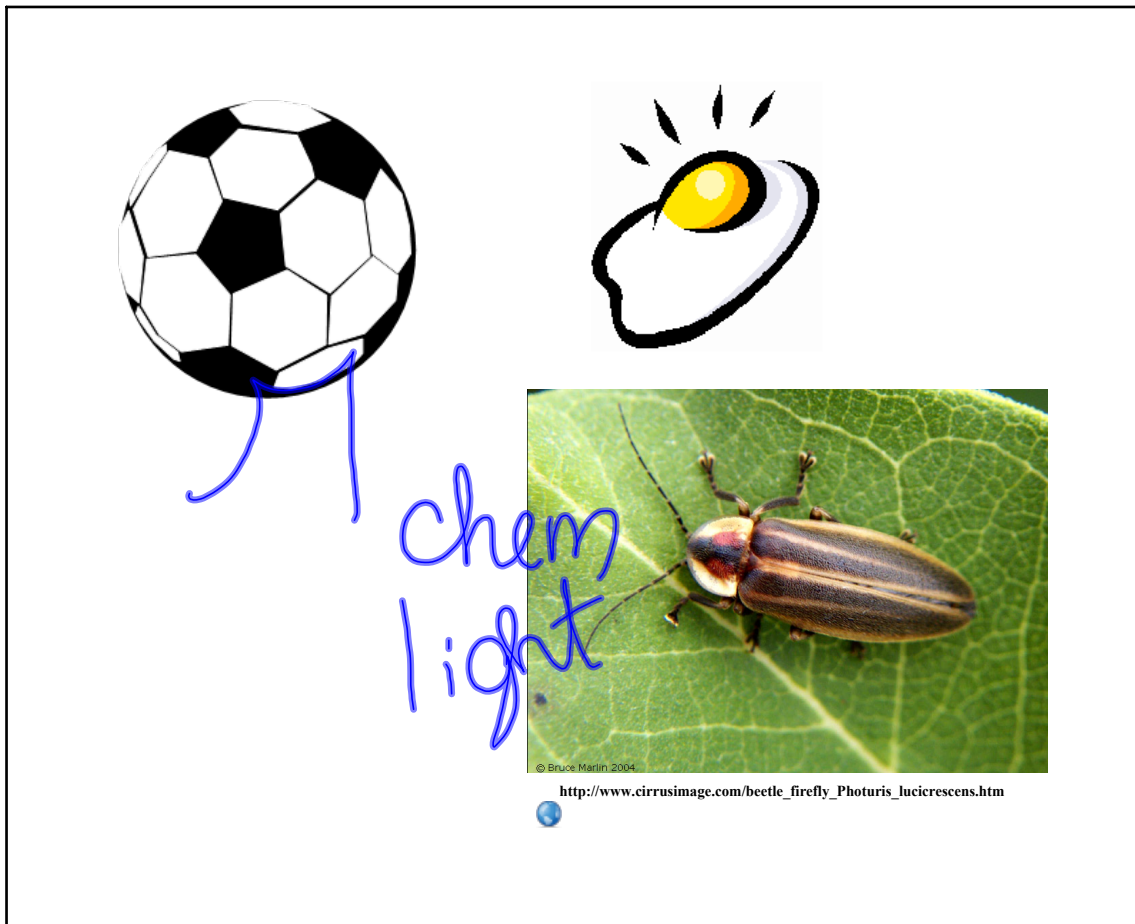
Heat - fire, sun

Chemical - nuclear, batteries

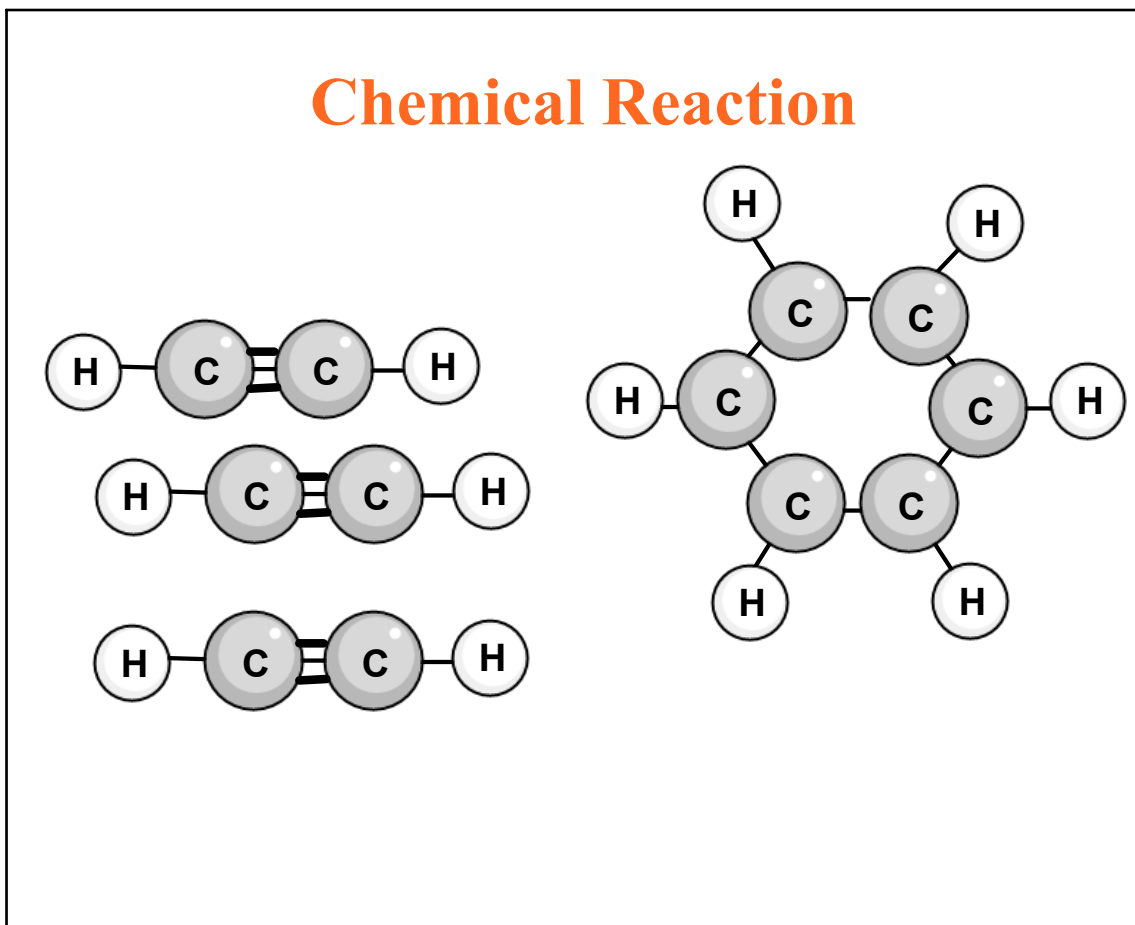
Mechanical - bicycle

Electrical - plugs

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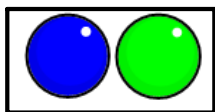
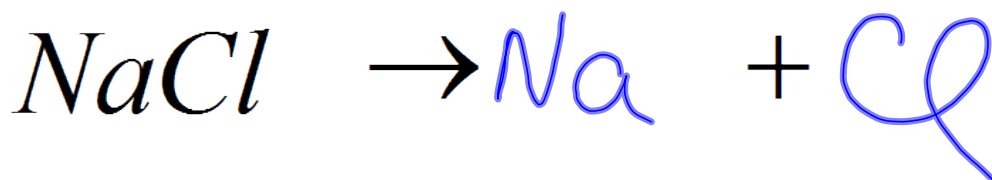
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Reactants \rightarrow Products

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Chemical reactions absorb or release energy

video 1
video 2

Open with Video Player. In
folder with chapter 2

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Changes of State

Sim Objective: Understand how a change of state happens in a solid, liquid or gas, in terms of energy and particle movement.

You are presented with a thermometer, a beaker of water and a particle window.

Increase or decrease the temperature of the water by dragging the arrow beside the thermometer, either up or down.

The changes in the water's state will appear in the particle window.

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Metabolism-
all of the
chemical
reactions in an
organism

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Activation Energy-
energy needed to start a
chemical reaction

Examples:

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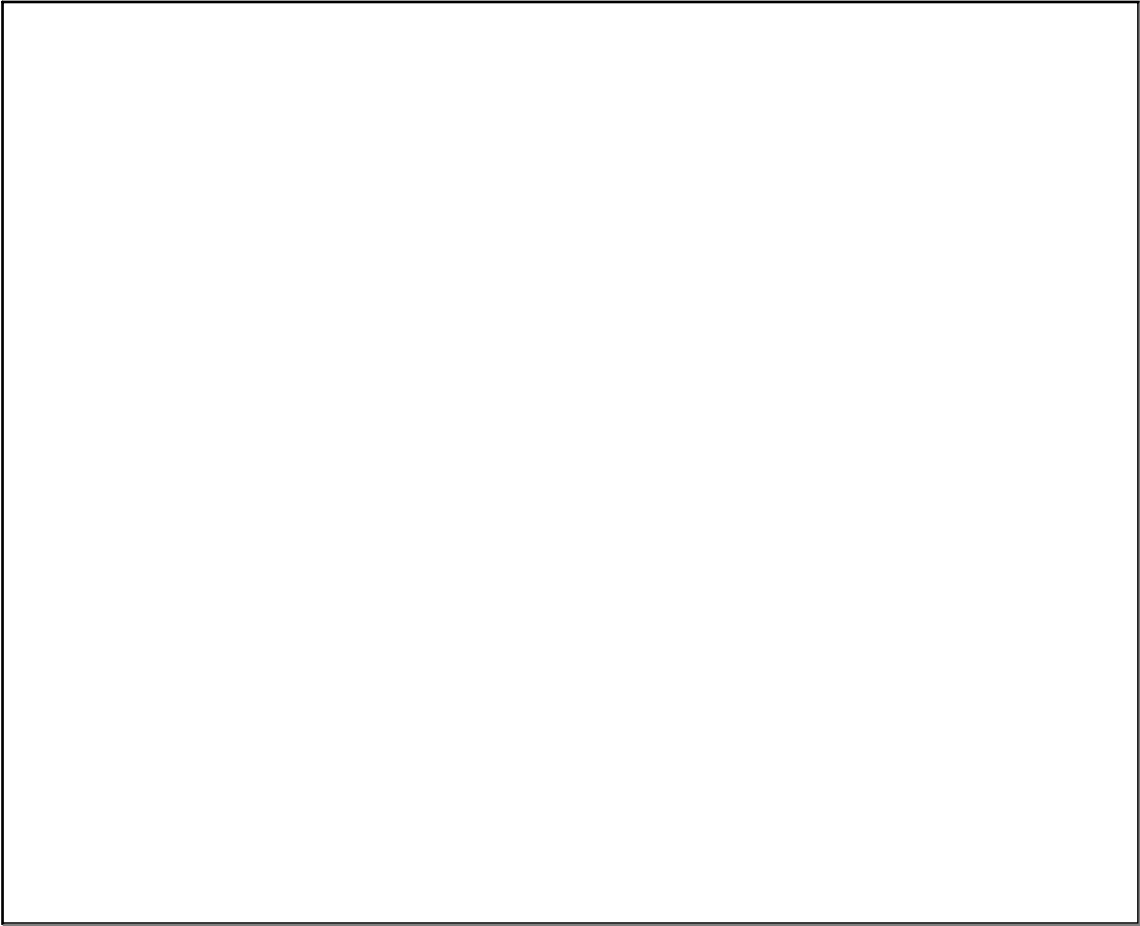
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Enzymes- substances that increase the speed of chemical reactions.

Substrate- a substance on which an enzyme acts during a chemical reaction

Active site- pockets on enzymes

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