

Energy Transformation with Toys

Energy cannot be created or destroyed. It can only change from one form to another.

Using the Transformation Cards, show how energy has been transformed by each of the toys. Look at the Toaster example below.

M Mechanical	R Radiant	C Chemical	N Nuclear	E Electrical	S Sound	T Thermal	+ Plus	→ Transforms to
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Toaster

M	+	E	→	T	+	R	S
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For a toaster, mechanical energy (pushing down the lever) + electrical energy (electricity from the outlet)
is transformed (**→**) into thermal (heat), radiant (light), and sound energy.

Dynamo Flashlight

M Mechanical	→	E Electrical	→	R Radiant	+	S Sound	+	T Thermal
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Blasterballs

M Mechanical	+	C Chemical	→	R Radiant	S Sound	T Thermal
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SolarToy

R Radiant	→	E Electrical	→	M Mechanical	+	S Sound
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Toy Vehicle

C Chemical	→	E Electrical	→	M Mechanical	+	S Sound	+	R Radiant
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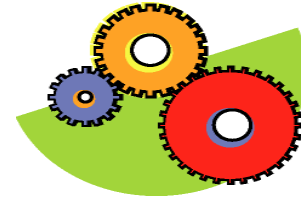
Radiant (Light)

R



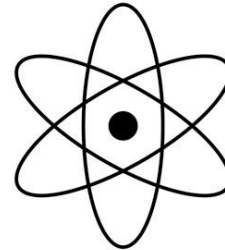
Sound

S



Mechanical

M



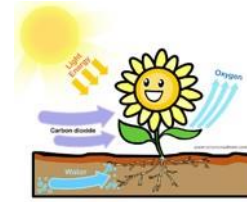
Nuclear

N



Thermal (Heat)

T



Chemical

C



Electrical

E

