

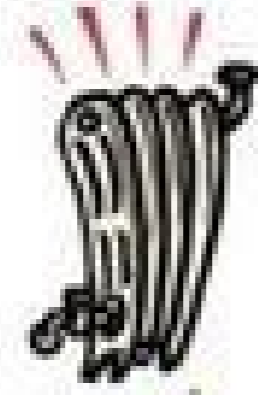
Energy transformation worksheet 9th grade



CONDUCTION, CONVECTION, AND RADIATION



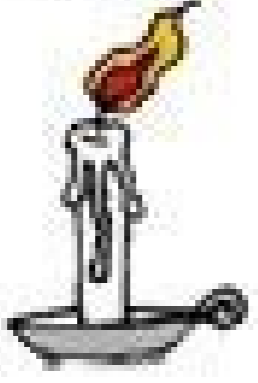
- conduction
- convection
- radiation



- conduction
- convection
- radiation



- conduction
- convection
- radiation



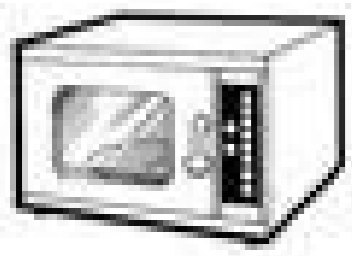
- conduction
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- conduction
- convection
- radiation



- conduction
- convection
- radiation



- conduction
- convection
- radiation



- conduction
- convection
- radiation

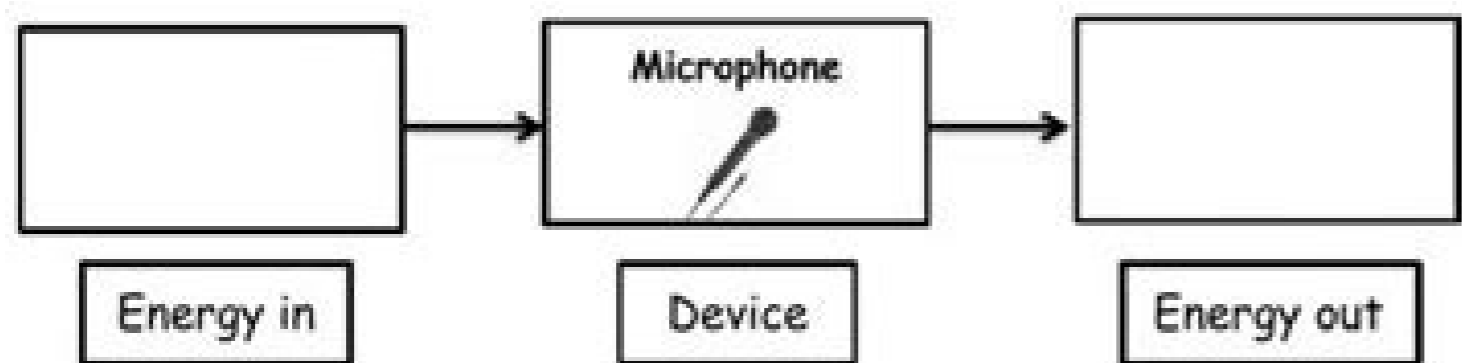
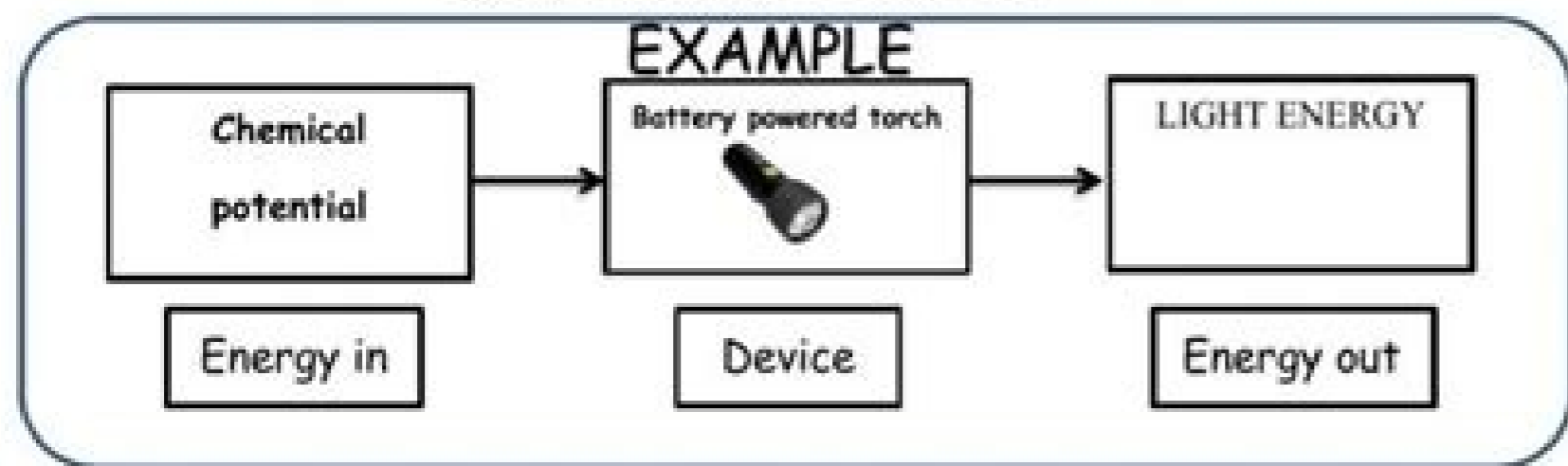
Transformations and Translations of the Quadratic Function.

<p>1. $y = x^2$</p> <p>Parent Function $y = f(x)$</p>	<p>2. $y = x^2 + 2$</p> <p>Translated up 2 $y = f(x) + 2$</p>	<p>3. $y = x^2 - 2$</p> <p>Translated down 2 $y = f(x) - 2$</p>
<p>4. $y = -x^2$</p> <p>Reflected over the x-axis $y = -f(x)$</p>	<p>5. $y = (x + 2)^2$</p> <p>Translated left 2 $y = f(x + 2)$</p>	<p>6. $y = (x - 2)^2$</p> <p>Translated right 2 $y = f(x - 2)$</p>
<p>7. $y = (-x)^2$</p> <p>Reflected over the y-axis $y = f(-x)$</p>	<p>8. $y = 2x^2$</p> <p>Stretched by a factor of 2 $y = 2f(x)$</p>	<p>9. $y = \frac{1}{3}x^2$</p> <p>Shrunk by a factor of 3 $y = \frac{1}{3}f(x)$</p>

Energy Transfers

Chemical, kinetic, Electrical,

Light, Thermal, Sound, Solar



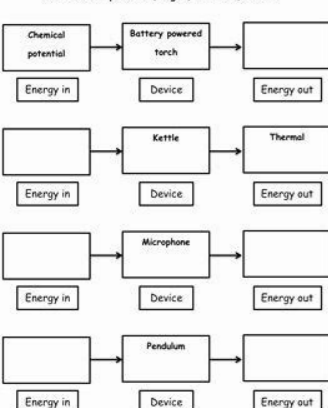
- Name _____ Period _____ Date _____
- Most activities involve one form of energy being _____ to another form.
 - When energy transformations occur _____ energy is always produced.
 - The Law of Conservation of Energy states that energy cannot be created or _____.
 - Complete the chart for energy transformations that occur in different devices.

Device	Starting Energy	Changes to
Battery	a.	Electrical energy
Clothes dryer	b.	Electrical energy
Car engine	c.	Chemical energy
Furnace	d.	Heat Energy
Fan	e.	Electrical energy
Drum	f.	Sound energy
 - What is the energy transformation that occurs in a ceiling fan?
 - electrical to chemical
 - mechanical to electrical
 - electrical to mechanical
 - mechanical to thermal
 - What energy transformation is occurring in a campfire?
 - chemical to thermal
 - chemical to mechanical and thermal
 - chemical to light and thermal
 - thermal to light
 - What energy transformation occurs in a green plant on a sunny day?
 - light energy to mechanical energy
 - light energy to chemical energy
 - chemical energy to light energy
 - chemical energy to mechanical energy
 - What energy transformation occurs when you rub your hands together?
 - mechanical energy to heat energy
 - chemical energy to heat energy
 - mechanical energy to chemical energy
 - heat energy to mechanical energy
 - Stored energy is
 - friction
 - kinetic energy
 - potential energy
 - potential energy
 - Which type of energy is contained in a tank of gasoline?
 - chemical
 - mechanical
 - electrical
 - thermal

Name _____ Date _____

Energy Transfers

Identify potential, kinetic, both, electrical, chemical, light, thermal, sound.



Energy transformation worksheet 8th grade answer key. Energy transformation worksheet answers 9th grade. Energy transformations student worksheet answer key.

Live worksheets > English Finish!! Please allow access to the microphone Look at the top of your web browser. If you see a message asking for permission to access the microphone, please allow. Close (i) An Electric motor used in electric fans, washing machines, refrigerators, mixer and grinder etc. convert Electrical energy → Mechanical energy. (ii) A Generator converts Mechanical energy → Electrical energy. (iii) An Electric Iron converts Electrical energy → Heat Energy (iv) An Electric Heater converts Electrical Energy → Heat Energy (v) An Electric Bulb converts Electrical Energy → Heat Energy → Light Energy In an electric bulb flow of electricity causes the tungsten filament in the bulb to become white hot and give out light. So in an electric bulb the energy transformation takes place as follows : Solar Cell : Light Energy → Electrical Energy Solar Heater : Light Energy → Heat Energy Burning LPG : Chemical Energy → Heat Energy + Light Energy Cell or Battery : Chemical Energy → Electrical Energy Car Engine : It converts the chemical energy of petrol into heat energy and then into kinetic energy or mechanical energy. Chemical → Heat → Kinetic Energy or Mechanical Energy Steam Engine: Heat Energy → Kinetic Energy Radio: Electrical Energy → Kinetic Energy of diaphragm in speaker→ Sound Energy At thermal power station: Chemical energy → Heat Energy → Kinetic Energy → Electrical Energy. When coal is burnt, the chemical energy of coal is changed into heat energy. This heat energy converts water into steam. The high pressure steam turns the steam turbines changing the heat energy into kinetic energy. The turbines run electricity generators which convert kinetic energy into electrical energy. Few more examples COMMERCIAL UNIT OF ENERGY: The commercial unit of energy is kWh (Kilowatt hour). The unit 'joule' is too small and hence is inconvenient to express large quantities of energy, so we use kWh as unit of energy for commercial purposes. 1 kWh is the amount of electrical energy consumed when an electrical appliance having a power rating of 1 kilowatt is used for 1 hour. The energy used in households, industries and commercial establishments are usually expressed in kilowatt hour. For e.g. electrical energy used during a month is expressed in terms of 'units'. Here, 1 'unit' means 1 kWh or BOTU (Board of Trade unit). Question 1 How much work should be done on a bicycle of mass 20 kg to increase its speed from 2 m/s to 5 m/s? Solution: 1st Case: $m = 20 \text{ kg}$ 2nd Case : $m = 20 \text{ kg} = 250 \text{ J}$ Work done = Change in kinetic energy = $250 - 40 = 210 \text{ J}$ Question 2 A car of mass 1000 kg traveling at 30 m/s stops at a distance of 50 m decelerating uniformly. What is the force exerted by it on the brakes? What is the work done by the brakes? Solution: $u = 30 \text{ m/s}$, $S = 50 \text{ m}$ $v = 0$, $a = ?$ $v^2 = u^2 + 2as$ $(0)^2 = (30)^2 + 2a(50)$ $0 - 900 = 100a$ $a = -9 \text{ m/s}^2$ $F = m \times a$ $F = 1000 \times -9 = -9000 \text{ N}$ Work done by brakes on the car $W = F \times s$ $W = 9000 \times 50 = 450,000 \text{ W} = 4.5 \times 10^5 \text{ J}$ Related Topics Power Mind Map of Work, Power and Energy Work

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