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| --- | --- | --- |
| Specific Heat | Amount of energy needed to raise the temperature of something one degree. | http://regentsearth.com/ILLUSTRATED%20GLOSSARY/Glossary%20Pix/SpecificHeats.jpg |
| Water | \*\*\*Has the highest specific heat. | 4.18 Joules per gram |
| Closed Energy System | A system that does not release, or lose, energy  -very difficult  To do | http://www.dutchsubmarines.com/export/images/moray/class_moray_computer_image_1.jpg  A sub lets out the least amount of energy |
| Open System | Lets energy escape | http://regentsprep.org/Regents/earthsci/graphics/102A_22-23.gif |
| Source to Sink | Energy always moves from it’s source to a cooler place | http://2.bp.blogspot.com/-FkXiCy5K-XA/TstuehTabGI/AAAAAAAABVg/cRO1U2F9MYk/s1600/heatsink.jpg |
| 3 ways to transfer energy | 1. Conduction 2. Convection 3. Radiation | http://ecx.images-amazon.com/images/I/51MhOwghYDL._SX300_.jpg |
| Conduction | Transfer of energy through SOLIDS  -atoms collide with each other | http://media-cache-ak0.pinimg.com/736x/0d/90/03/0d90031736c4b22414b4569158619b1d.jpg |
| Convection | -transfer of energy in LIQUIDS and GASES | http://www.newair.com/blog/wp-content/uploads/2013/10/convection1.bmp |
| Radiation | -Energy waves transfer through ALL MATERIALS | http://mamontoff.org/science-radiation.jpg |
| **Crest** of a wave | Top part of a wave | http://pinkpanthers.pbworks.com/f/Crest.JPG |
| **Trough** | The bottom of the wave | http://pinkpanthers.pbworks.com/f/trough.gif |
| Wavelength | The distance between two Crests or two troughs. | http://upload.wikimedia.org/wikipedia/commons/thumb/1/1a/Wavelength.svg/1280px-Wavelength.svg.png |
| Longitudinal Wave | displacement of the medium is in the same direction as | http://www.geo.arizona.edu/xtal/nats101/6_4.jpg |
| Transverse Waves | The wave moves in a perpendicular direction to the molecules | http://www.geo.arizona.edu/xtal/nats101/6_4.jpg |
| Amplitude | Height of a  wave | http://www.mediacollege.com/audio/images/amplitude.gif |
| Reflection | Light bounces off.  -no energy absorbed  -light, smooth surfaces reflect best | http://www-cs-faculty.stanford.edu/~eroberts/courses/soco/projects/1997-98/ray-tracing/images/reflection.gif |
| Scatter | Wavelengths move in different directions | http://images.tutorvista.com/content/feed/tvcs/scattering-of-light.jpeg |
| Absorb | Energy is taken in  -dark surfaces  -rough surfaces | http://www.geosci.ipfw.edu/PhysSys/Unit_1/co2.jpg |
| Insolation | In coming  Solar radiation  -energy waves coming from the sun | http://media.web.britannica.com/eb-media/49/104249-036-D4E33A5F.jpg |
| Refraction | Light energy is bent  -based on the object energy is moving through. | https://d2gne97vdumgn3.cloudfront.net/api/file/Sbh4A9nzTlmraMPr48tK |
| Potential Energy | Stored energy  -not in motion | [http://images.tutorvista.com/cms/formulaimages/83/potential-energy-formulas-image.PNG](http://www.google.com/url?sa=i&source=imgres&cd=&cad=rja&uact=8&ved=0ahUKEwjc_Zucy6nJAhUFcz4KHVXaCDYQjRwICTAA&url=http://formulas.tutorvista.com/physics/potential-energy-formula.html&psig=AFQjCNHqpjSdbA4h3zT8dzuDM899ppSF_Q&ust=1448472643322084) |
| Kinetic Energy | Energy in motion | http://s4.brainpop.co.uk/blog/wp-content/uploads/2011/09/kinetic-energy-300x220.jpg |
| Latent Heat | **heat** absorbed or radiated during a change of phase at constant temperature and pressure | http://1.bp.blogspot.com/-hPhwFnJUrTI/T0dmPxilMcI/AAAAAAAABZg/Y9ZYONyXf3w/s1600/latent-heat.JPG |
| Sublimation | When a substance changes from Solid to gas  Or  Gas to solid | http://www.google.com/url?sa=i&source=imgres&cd=&ved=0ahUKEwj5lJmAzKnJAhUBRD4KHW6sDRIQjBwIBjAA&url=https%3A%2F%2Fupload.wikimedia.org%2Fwikipedia%2Fcommons%2Fd%2Fd5%2FDry_Ice.jpg&psig=AFQjCNE1jGdGIJTAlky2Jk7XCyiEbZBilA&ust=1448472853045239 |
| Temperature | The measure of how much kinetic energy is in a particle | http://www.mathatube.com/images/tem-00.jpg |
| Temperature Scales | 3 ways to measure temperature   1. Farenheit 2. Centigrade 3. Kelvin | http://www4.uwsp.edu/psych/stat/2/tmpscals.gif |
| Phase Diagram | Shows all the phase changes of matter related to temperature and heat energy | https://s-media-cache-ak0.pinimg.com/originals/8d/9f/f9/8d9ff93c5166caf210284595470853f3.jpg |
| Global Warming | Steady increase of Earth’s average temperature | http://www.ducksters.com/science/environment/global_warming_greenhouse_gasses.GIF |
| Greenhouse Effect | -Caused by Carbon Dioxide | https://s-media-cache-ak0.pinimg.com/736x/57/57/0f/57570fa0d8fd6c5eda83b3da11fec1a5.jpg |