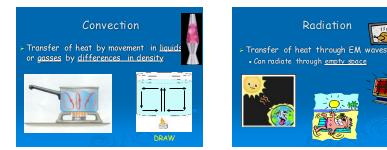
- > I can name & explain the three types of heat transfer
- > I can use the Electromagnetic Spectrum Chart in the ESRT
- > I can name the type of surface that would absorb or reflect energy the best
- > I can explain Specific Heat & use the chart on the ESRT
- I can label the phase change chart









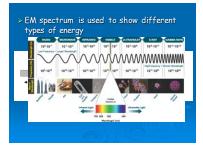


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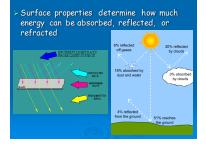
Electromagnetic Energy

- Energy that is given off by transverse waves not at absolute zero
- Energy is classified by their different wavelengths (distance from one crest to another)



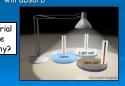


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Example: The <u>DARKER</u> the color & the <u>ROUGHER</u> the texture the more energy it will absorb Which material

will become hotter? Why?



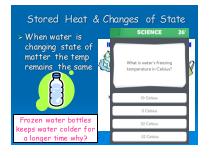
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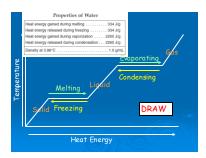
Specific Heat

The amount of heat needed to raise the temp of 1 gram of any substance 1°C.

MATERIAL	SPECIFIC HEAT (Joules/gram + °C)	-
Liquid water	4.18	Remember - Liquid water has the highest specific heat
Solid water (Ice)	2.11	
Water vapor	2.00	
Dry air	1.01	
Basalt	0.84	
Granite	0.79	
Iron	0.45	
Copper	0.38	
Lead	0.13	



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