

# TA12A -Teach About Heating Earth's Air

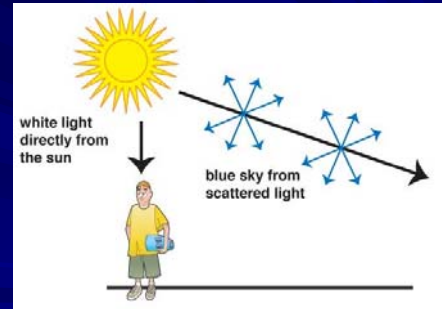
Use with BrishLab ES12A  
Done By: Coach - Period All

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1- All colors of light come from the Sun. Why then is the sky blue?

Page 1  
Para 2



The atmosphere scatters blue light the most.

[Image Link](#)

2- Give an example of energy changing from one source to another.

Page 1  
Para 5

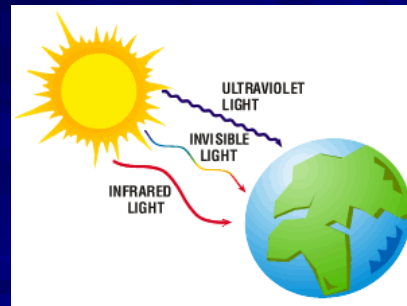


Heat is released as radiation and convection from the wood to cook food.

[Image Link](#)

3- How can energy travel through the vacuum of space?

Page 1  
Para 5



Energy travels by electromagnetic waves - radiation.

[Image Link](#)

4- What instrument is used to measure temperature?

Page 1  
Para 6

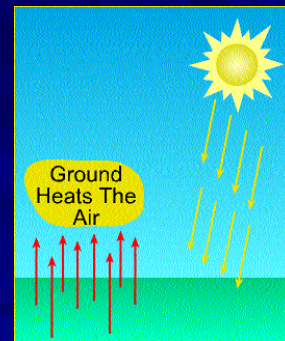


We use a a thermo - meter or a thermometer.

[Image Link](#)

5- What kind of energy warms the Earth's surface?

Page 1  
Para 7

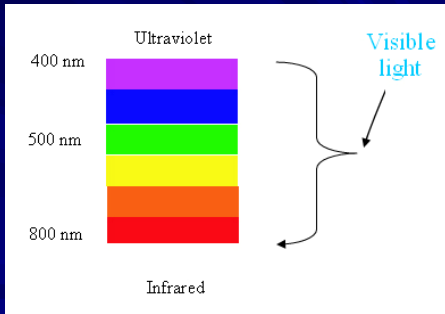


Radiant energy heats us from the Sun.

[Image Link](#)

6- What is the difference between infrared radiation and ultraviolet radiation?

Page 1  
Para 9

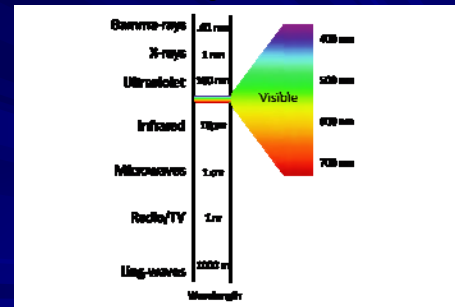


Infrared is beyond red and ultraviolet is beyond violet.

[Image Link](#)

7- Using the words wavelength and colors, list three facts about visible light.

Page 2  
Para 9

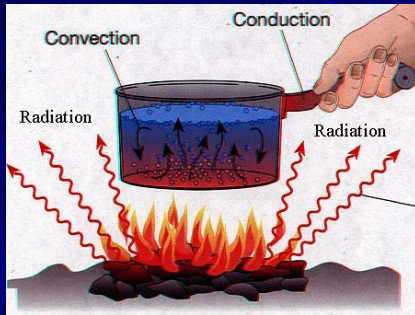


Visible light has a wavelength that is between ultraviolet and infrared and can be separated into colors we can see.

[Image Link](#)

8- Give an example of conduction heating at home.

Page 2  
Para 11

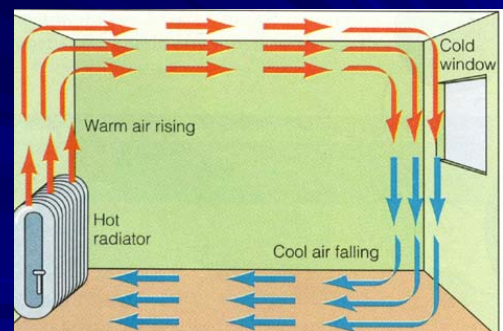


When we hold the handle of a pot on the stove, the heat is conducted to our hand.

[Image Link](#)

9- Why does cool air sink to the Earth's surface?

Page 2  
Para 11

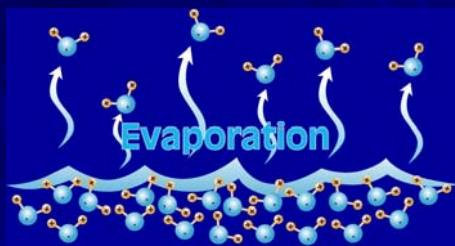


Cool air is more dense so it sinks due to gravity.

[Image Link](#)

10- Using the words heat, energy and vapor, define evaporation.

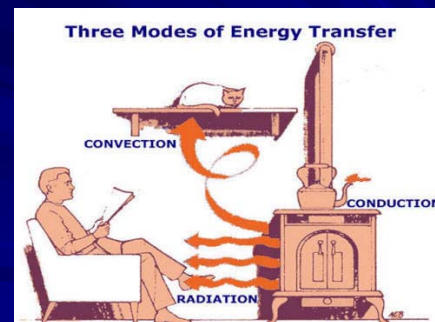
Page 2  
Para 14



Heating water gives energy to molecules forcing them to become water vapor - evaporation.

[Image Link](#)

Wrap it up: Draw, color and label examples of conduction, convection and radiation energy transfer.



[Image Link](#)