

Grade 7 SCIENCE
Ch. 4 REVIEW

NAME: _____


CLASS: _____

Wind chill Temperature Body temperature Room temperature Absolute zero	Bimetallic strip Calibrate Celsius Scale Fahrenheit Scale Kelvin Scale	hypothermia Thermocouple Thermogram Thermometer thermoscope
TERM	DEFINITION	
1.	1. a device used to measure temperature	
2.	2. to accurately assign the numbers on a scale	
3.	3. the temperature at which most people are comfortable/ temperature of 20 – 23 °C	
4.	4. a scale used for measuring temperature in scientific experiments	
5.	5. developed before thermometers/ it shows whether the air is hot or cold but does NOT measure temperature since it has NO numeric scale	
6.	6. the most common scale for measuring temperature	
7.	7. used to measure temperature/made of TWO different types of wires connected at both ends/ temperature is caused by an electric current travelling along the wires and is shown by the differences in temperatures at each end	
8.	8. an important indicator of a person's health/the temperature of 37°C when someone is well and above 40°C when someone is dangerously ill with a fever	
9.	9. an image generated by a device which detects INFRARED radiation and converts it into colours which represent temperature differences	
10.	10. the FIRST widely used temperature scale/ it is still used in the U.S.A.	
11.	11. a relative measure of how hot or cold something is/ it is the average kinetic energy of the particles in a substance	
12.	12. the strip made of two different types of metals that expand by different amounts when heated	
13.	13. the coldest possible temperature at 0 K (zero Kelvin)	
14.	14. the a person's body is cooled to a dangerously LOW temperature causing the heart to slow and body organs to not function correctly/ less than 32 °C it is hard to revive someone/ it can lead to death	
15.	15. when the wind makes it feel colder than what the temperature is showing/it does not have a units	

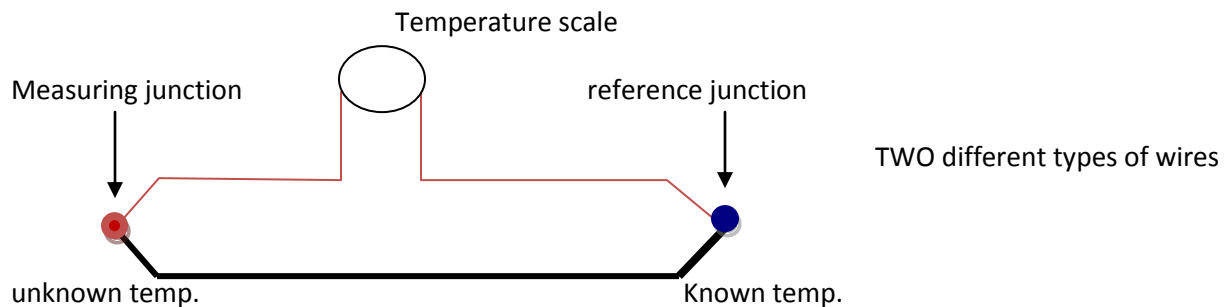
2. Compare the scales used to measure temperature.

See page 123-124 in text.

NOTE: $K = ^\circ C + 273$

SCALES 	Celsius $^\circ C$	Fahrenheit $^\circ F$	Kelvin K
Date created			
Created by			
Water freezes			
Water boils			
BODY temp.			
Absolute zero			

3. How does a thermocouple work?



WORD LIST : measuring junction reference junction
 amount of current temperature differences

_____ in each end causes a small electric current to flow through the wires.

Knowing the temperature at the _____ and the unknown temperature at the _____, by calibrating the

_____ sent through the wires, you can find out the missing temperature.

4. How does a thermostat work?

(Check page 126 in text to complete this question.)

Fill-In WORD LISTS:

electric connection temperature tilts
coil uncoil bimetallic strip expands inside outside
tighter mercury cooled glass capsule heated

1.	In a thermostat we have a _____ curled into a _____.
2.	When the coil is cooled the _____ is cooled more than the _____ causing the coil to _____.
3.	When heated, the outside _____ more than the inside making the coil to go _____.
4.	The end of the coil is attached to a _____ containing a drop of _____.
5.	When it is cool, the drop of mercury flows towards a pair of wires making an _____ turning on the furnace.
6.	The _____ in the house raises causing the coil to tighten.
7.	When the coil is tight enough, the glass capsule _____ and mercury flows away from the wires breaking the electric current. The furnace turns off.

* Know the table with temperatures in every day living.