Conduction, Convection and Radiation Review

What are the 5 statements in the Particle Theory of Matter?

1. Made up of tiny particles called atoms + molecules. 2. Every substance has unique particles that are different than in other 3. Particles of matter are in constant motion. 4. Higher temperature particles more faster than at a lower temperature. 5. Particles are held together with strong attractive forces

In the space below, draw what the particles of a solid liquid and gas look like, and then fill out the rest of the table.

Solid	Liquid	Gas
		Conversion of a ros
The shape is: The	The shape is: the container	•The shape is: the container
The volume is: fixed	The volume is: fixed	The volume is: same as the container
What are the particles doing?	What are the particles doing?	What are the particles doing?
- vibrate - duesn't flow		-vibrates + moves at high
-not easily compressible	eachotiv flows -not easily compressible	- easily compressible

What is thermal energy? ect/system due to the movement the ma energy

What is thermal expansion? Provide an example of thermal expansion in a solid, liquid and gas. faster causing the space between them to tilles 4P, and move PAR From heat ina levels rising fires in creasing in size , has but

Conduction Convection Radiation What is it? What is it? What is it? Heat transfer caused Heat transfer caused Transmission of by the flow of a radiant energy in the by collision of particles. Fluid's particles form of electromagnetic No movement of material - Constant cycle Waves_ What is an example of it? What is an example of it? What is an example of it? Ex: spoon becomes hot Ex: the heat you Feel Ex: heating up soup, from the sun, or a candle after sitting in hot. hot particles rise, cold Decticles sink.

When thinking of a lava lamp. All three forms of heat transfer are present. Please explain (in detail) how each of them are represented when a lava lamp is on and heated up.

Conduction - transfer of through direct contact. hoar coil th glass. 61 replacing the cooler Converton and. lava to 410 FISIM and 10 CON STAN through On -1944 5416 radiating Neat 1 あった時でもたれ、そうない、ここのも、ころには、ここのは、ここのです。 and the second

Charles a second second second