Is chemistry the study of the submicroscopic, the microscopic, or the macroscopic?

1. Submicroscopic, because it deals with atoms and molecules, which can't be seen with a microscope.

2. Microscopic, because it pertains to the formation of crystals.

3. Macroscopic, because it deals with powders, liquids, and gases that fill beakers and flasks.

4. All of these answers, because most everything is made of atoms and molecules.

A TV screen looked at from a distance appears as a smooth continuous flow of images. Up close, however, we see this is an illusion. What really exists are a series of tiny dots (pixels). This is similar to a chemist's view of matter in that

1. the fundamental particles of matter can also be seen when looked at closely with a magnifying glass.

2. on the submicroscopic level, chemists find that matter is made of extremely small particles, such as atoms and molecules.

3. anything that a chemist can see, touch, hear, smell, or taste is an illusion.

4. elements are made up of only three basic types of matter.

What is happening?

1. The sample is being cooled, and the material is condensing

2. The sample is being cooled, and the material is freezing.

3. The sample is being heated, and the material is boiling

4. The sample is being heated, and the material is melting.

5. The sample is unchanged

Physical or chemical change?

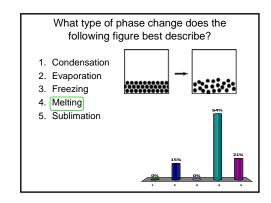
1. Chemical, because the atoms are connected differently.

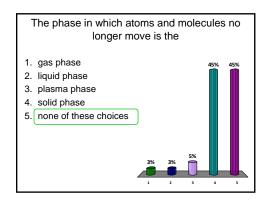
2. Chemical, because of the formation of elements

3. None of these choices

4. Physical, because of a change in phase

5. Physical, because a new material has been formed





What is the gas found within a bubble of boiling water?

1. Air
2. Chlorine from the water
3. Hydrogen
4. Oxygen
5. Water vapor

