

In my game you will be a character who has been shrunken down to the size of an atom. You do not want to get hit by the atoms because they will kill you. To escape, you must answer questions about the atomic theory and the kinetic molecular theory. The answers will be hidden beyond obstacles.

Movement

Up arrow: Jump

Left arrow: Move Left

Right arrow: Move right

Down arrow: Submit answer

Atoms and Questions:

Atoms will exist in the game.

If you get a question wrong, you will lose.

Every time you get a question correct, the level will advance.

Levels:

Each level is different and harder than the last.

Each level will have a higher temperature level. There will be liquid solid and gas forms depending on the level.

If you hit an atom you restart your current level.

Winning and Losing:

If you complete all levels, you win. If you lose the game, you restart.

Questions:

Atoms are made up of 4 subatomic particles. (False)

The three subatomic particles are protons, neutrons, and electrons. (True)

Protons are made of quarks. (True)

Niels Bohr invented the first model of the atom. (False)

A proton is made of two down quarks and one up quark. (False)

Electrons exist in a cloud of positive charge. (False)

Most of an atoms mass in the nucleus. (True)

The plum pudding model of the atom states that electrons exist in a ball of positive charge. (True)

Gas particles do not move. (False)

The speed of particles increases when heat is added. (True)

Kinetic energy decreases when heat is removed. (True)

When an substance goes from solid to gas it is called deposition. (False)

When a substance goes from a gas to a liquid it is called condensation. (True)

The Dalton model of the atom was created after the year 1820. (False)

Niels Bohr used gold foil and positively charged particles to conduct his experiment. (True)

Density in liquids is measured in grams per millilitre. (True)

Water's density is 1g/ml. (True)

Baby oil has a density of 0.82g/ml. It would sink in water. (False)

Leptons are found in the nucleus. (False)

The kinetic molecular theory only applies to liquids and gasses. (False)

When the temperature is absolute zero, all particles stop moving. (True)

The enemies in this game use the Bohr Model of the atom. (True)

The player in this game uses the Dalton Model of the atom. (False)

Democritus invented an early model of the atom. (False)

Milk's density is 1.06. It would sink in water. (True)

Density is mass times volume. (False)

Heat makes matter shrink. (True)

Gas particles move in random, straight line motion. (True)

Atoms are all the same weight and size. (False)

The Rutherford model of the atom was invented during the 20th century. (True)