

Name: \_\_\_\_\_

## Just How Small is an Atom

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**1. What is in between the nucleus and the electrons in an atom?**

- a. A jello-like goo
- b. Protons and Neutrons
- c. A mushy substance similar to pudding
- d. Empty space

**2. Describe the size and scale of an atom. Explain the relative size of the nucleus in relation to the size of the entire atom.**

**3. What is contained in the nucleus of an atom?**

- a. Protons and neutrons
- b. Electrons
- c. Neutrons only
- d. The DNA and chromosomes

**4. Come up with your own analogy as to the size of an atom. Do some proportions to determine how you could describe how small an atom is.**

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**5. The density of a typical nucleus is equal to....**

- a. Similar to 6.2 billion cars in a one cubic foot box
- b. Similar to the density of lead
- c. Similar to the density of water (1 g/mL)
- d. Similar to the density of an aircraft carrier.

**6. The number of atoms in a grapefruit would be equivalent to**

- a. The number of blueberries in the Sun
- b. The number of blueberries in a house
- c. The number of blueberries that would fit into the world
- d. The number of blueberries in the Ocean

**7. If you had an atom that was blown up to the size of a blueberry, the nucleus would be the size of....**

- a. It would be invisible
- b. It would be the size of a grain of sand
- c. It would be the size of a marble
- d. It would be the size of golf ball