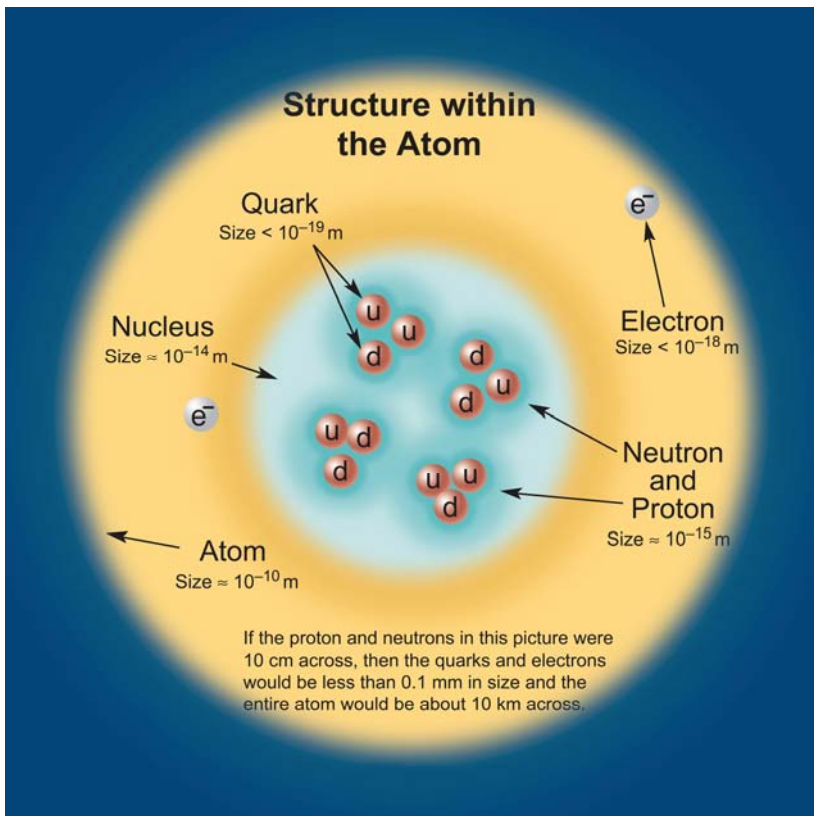


**Activities**

1. Choose the right answers. There is always at least one right answer, but it could be more than one.
  - a. Protons and neutrons are the elementary particles of the nucleus
  - b. If you break a neutron you will obtain three quarks
  - c. The electrical charge of nucleus must be 0
  
2. Two quarks **up** and one quark **down**, makes...
  - a. One proton
  - b. One neutron
  - c. One electron
  
3. One electron and one proton...
  - a. Annihilates each other
  - b. Have opposite charges
  - c. Are elementary particles from the atom



3. Look at the following image and complete the missing words

A Helium nucleus have two protons and two \_\_\_\_\_.

Each proton is made from \_\_\_\_\_ quarks. The electrical net charge of the Helium nucleus is \_\_\_\_\_.

The electrical net charge of the whole atom is \_\_\_\_\_

If we add or remove one \_\_\_\_\_ to the nucleus, the atom becomes radioactive.