

# Subatomic Particles

Name \_\_\_\_\_

Date \_\_\_\_\_

Block \_\_\_\_\_

## What are subatomic particles?

The particles that make up an atom. These include many different parts, but here are the ones that we will be focusing on in Science 8

### In the Nucleus

● \_\_\_\_\_

● \_\_\_\_\_

### Surrounding the Nucleus

● \_\_\_\_\_

## Elementary/Fundamental Particles

● These are particles whose structure is unknown. Thus, we do not know if they are made up of other types of particles.

● They make up other particles  
Examples: \_\_\_\_\_

## Quarks

● There are \_\_\_\_\_ of quarks that we know of. With different combinations, we make \_\_\_\_\_.

The quarks are held together with particles called \_\_\_\_\_ that act as glue

## Leptons

● Leptons are another fundamental particle that respond only to \_\_\_\_\_ forces and do not take part in strong interactions.

● There are \_\_\_\_\_ leptons, three of which have electrical charge and three of which do not so they are \_\_\_\_\_.

● The best known lepton is the \_\_\_\_\_ ( $e^-$ ).