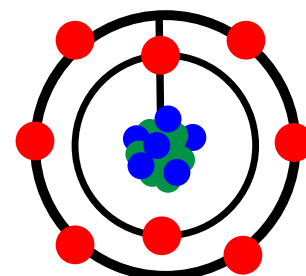


JR-SCIENTISTS

BUILD AN ATOM



INSTRUCTIONS

STEP 1: Connect two pipe cleaners on one end. Just twist them together.

STEP 2: Thread 6 beads of the same color onto this pipe cleaner.

STEP 3: Connect the other ends to make a circle.

STEP 4: Thread the remaining two beads of the first color onto a different pipe cleaner. Connect the ends to make a smaller circle.

STEP 5: Place the remaining beads (16) onto a pipe cleaner and twist to make a center 'nucleus'. Attach the remaining portion of the pipe cleaner to the top of the circle.

SUPPLIES

Pipe cleaners
Beads

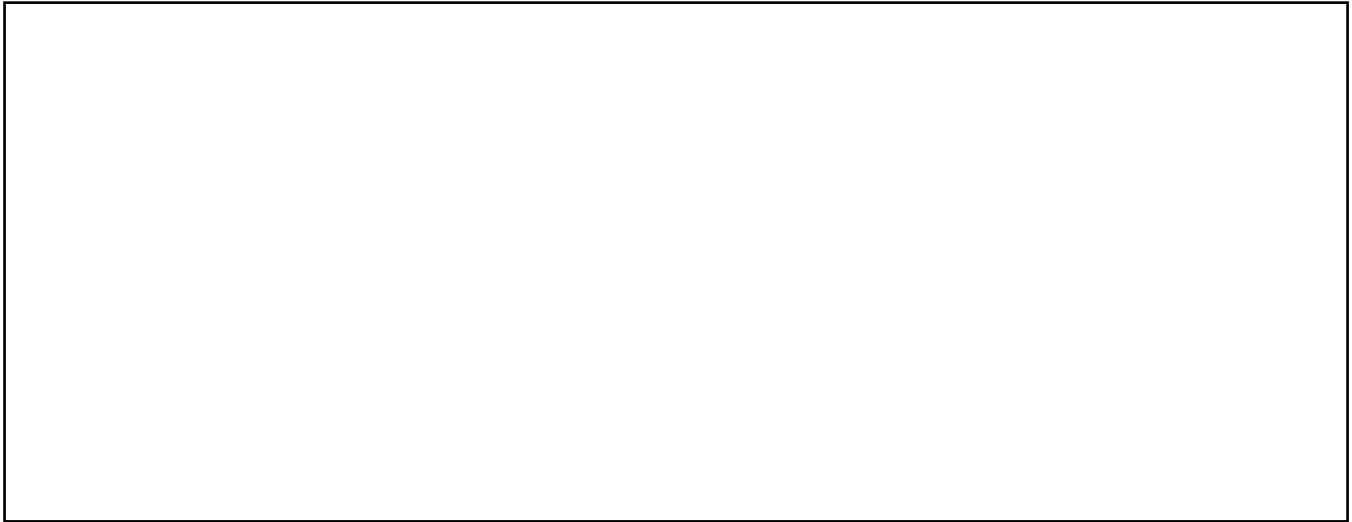
ATOMS

Atoms are microscopic—there are roughly one million atoms across the thickness of a single human hair—and cannot be seen without the aid of special technology. Each atom is composed of subatomic particles: protons, neutrons, and electrons. In a basic atomic model, electrons orbit a dense nucleus made of protons and neutrons. The random orbits of electrons are sometimes referred to as an electron cloud because the electrons are in constant motion, so the atom has no distinct outer edge.



Build an Atom Observations

Use this worksheet to process and evaluate your work.



Draw an atom here.

What is the most basic building block for all of the matter in the universe?

What are the different parts of an atom?

Which part of the atom is found outside the nucleus and is in constant motion?
