

# Atom Model Project

You must create a 3-D model for your particular element. But what exactly will the project look like when it is completed? It might end up looking like a mobile that we used to make in grade school with clothes hanger circles representing energy levels and the nucleus dangling in the center. It may end up being a poster board with marshmallows piled up in the center representing the protons and neutrons (with different colors, of course!) and raisins stuck on the ends of toothpicks that extend outward from the nucleus. The first two toothpicks representing the first energy level will be the shortest, with the second energy level longer, the third energy level even longer and so on. Be sure to make sure your model is accurate, but creative as well!

In addition to your model you must include a short description that explains your model. You must identify how many protons, neutrons and electrons are in your element and what each is represented by in your model. Be sure to explain why you choose certain objects to represent protons, neutrons and electrons.

## Grading Rubric

Components	3 points	2 point	1 points
Protons	Number is correct		Incorrect number
Neutrons	Number is correct		Incorrect number
Electrons	Number is correct		Incorrect number
Nucleus	*Correct particles found here *Correct location within atom	Missing/incorrect particles or location	Did not include nucleus
Electron Cloud	*Correct particle found here *Correct location within atom	Missing/incorrect particle or location	Did not include electron cloud
Write-up	Includes all parts	Missing some parts	Did not do write-up
Overall Appearance	*Easy to locate protons, neutrons, electrons, nucleus and electron cloud *Neat *Organized	*Somewhat easy to find particles *Somewhat neat and organized	*Difficult to find particles *Not neat and organized