

# Periodic Pegboard

## Introduction

If we look closely at the periodic table we see trends in the chemical properties of the elements. Treating the table as a landscape will help you visualize these trends. In this activity, a pegboard and straws are used to build a 3D model of the periodic table.

## Material

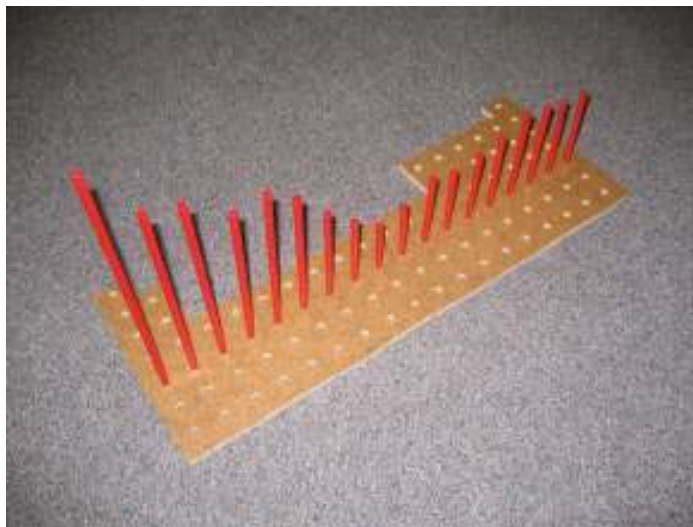
Peg board

Drinking straws

Markers

Metric Ruler

Table of electronegativity, ionization energies, atomic radii, and mass



## Assembly

Cut a piece of pegboard to form the shape of the periodic table with each pegboard hole representing a single element on the table. Using a metric ruler measure and cut drinking straws to represent the relative masses, atomic radii, ionization energies or electronegativities using the data provided.

## To Do and Notice

Build a three-dimensional model of the electronegativity, ionization energy, atomic radii and mass with the drinking straws. Identify the periodic trends in these properties.

Do atoms get smaller or larger from left to right in the periodic table?

Does ionization energy increase going up or down a column in the periodic table?