



Making a Model of a Periodic Table

Materials

plastic bag containing color chips

Procedure

1. Remove the color chips from the bag and place them on a flat surface, color side up.
2. Identify a property that you can use to divide the chips into groups. Then, identify a second property that you can use to order the chips from top to bottom within a group.
3. Use the properties you chose to arrange the chips into a table with rows and columns. Your teacher deliberately left out a chip from each bag. Decide where to leave a gap in your table for the missing chip.



Analyze and Conclude

1. **Classifying** What property did you use to divide the color chips into groups? What property did you use to arrange the chips within a group from top to bottom?
2. **Making Generalizations** What pattern repeats across each row of your table?
3. **Predicting** Based on its location on your table, describe the missing chip.
4. **Comparing and Contrasting** Compare the process you used to construct your table to the process Mendeleev used to make his table. Describe similarities and differences.