

Life Science 7

(Copy the following lab activity set up in your science notebook.)

Title: Activity 17A Families of Elements

Challenge Question: How can elements be grouped based on their physical and chemical properties?

Background:

- Elements have characteristic physical and chemical properties.
- Scientists classify elements into families, based on their properties.

Where can you find all of the known elements in one place?

Vocabulary:

Term	Definition	Picture
element		
family (of elements)		
metal		
Periodic Table of the Elements		

Materials:

- Families of Elements* lab packet
- 1 set of 14 Element Cards
- 1 set of 4 Element Family Cards

Procedures:

1. Read and follow directions in *Families of Elements* lab packet.
2. Answer Analysis questions from lab packet.
3. Write Conclusion.

Data/Results:

Record the element classification systems that your group agreed upon here.

Analysis Questions: (Write answers to lab packet Analysis Questions here.)

Conclusion: How can elements be grouped based on their physical and chemical properties?

Use data, evidence and examples from the lab activity to support your answer.