

Intro to the Periodic Table Worksheet **Answer Key**

Part 1: Sorting Activity (Thanks for the pictures!)

1) List all objects that your group was given:

Answers will vary. The following key will use these objects:

toy lightsaber, guitar, skateboard, action figure, Super Nintendo, mountain bike, trophy

2) Choose **two** objects out of the fifteen you were given. Which ones did you choose?

guitar & mountain bike

3) Now let's brainstorm some categories:

a) Name something that **both objects have in common**, such that they would be put in the same category.

they both require one person to use

b) Is this category applicable to the other objects you were given? Which ones?

yes, a toy lightsaber (& maybe the Super Nintendo) are one-person objects

c) Name something that **differentiates the two objects**, such that they would be in two separate categories.

a guitar requires hands to operate; a mountain bike requires legs to operate

d) What other objects would go in these two new categories?

hands - toy lightsaber, action figure, Super Nintendo; legs - skateboard

4) Continue sorting all fifteen objects until you have one table. Sketch the table here, including category headings and a list of the objects in each section:

Answers will vary, but the table should have at least four categories:

	Category	Category
Category		
Category		

Part 2: The Periodic Table

5) Vocabulary:

Period - A row on the Periodic Table

Group - A column on the Periodic Table

6) What does the “bolded staircase” do in organizing elements?

Elements to the left of the bolded staircase are classified as metals (with one exception). Elements to the right are nonmetals. Elements on the staircase are metalloids.

7) Select one element from the Periodic Table, copy it, and indicate the four pieces of information that can be found about that element on the Periodic Table:

Answers will vary, as students can choose their own:

1	← Atomic Number
H	← Chemical Symbol
Hydrogen	← Element Name
1.01	← Average Atomic Mass