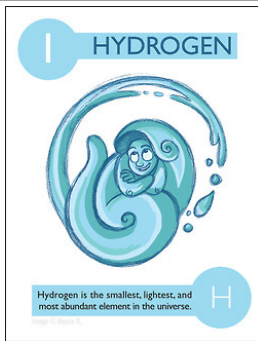


Elemental Characters and Periodic Table Project



Assignment Summary and Rationale:

a.) Your first task is to create three characters or “personifications” for three different elements with a description of the character that includes all major components as described below.

b.) Your second task is create a 3-D atomic model of one of your elements using household objects and recycled items. Please note: styrofoam is not allowed unless it is being recycled.

Purpose: To inform other students about your elements and to create a huge periodic table with the class

Role: You are acting as a **chemist**. A scientist who studies substances at the level of atoms or molecules!

Audience: BFCCPS community

Form: three elemental characters (8.5 x 11 inches each) and a single 3-D model

The project will be graded as follows:

Category	Exemplar Description	Score	Comments
Elemental Characters	Creative characters that capture interest of the reader or audience *use of color *originality *use of imagination *effort	20 15 10 5 0	
Model	Model includes clear labels or a key with each sub-atomic particle and sections of the atom (bonus points given for describing your use of recycled items) *can be within a diorama, hung from a string, or placed onto a base	20 15 10 5 0	

Category	Exemplar Description	Score	Comments
Elemental Character General Features: Front of Paper	*Completed on 8.5 x 11 inch paper	3	
	* <u>Includes the following:</u>	3	
	*Chemical symbol		
	*Name of element	3	
	*Atomic Number	3	
	*Atomic Mass	3	
	*Character diagram/drawing collage	3	
Elemental Character Diagram	*Elemental Character accurately portrays important characteristics and properties of the element Ex.: Noble Gases have a frown and look grumpy with a hand raised to push you away.	15 10 5 0	
Elemental Character Description: Back of Paper	<u>Must include all of the following:</u>	3	
	a.) group or family		
	b.) state of matter at room temperature	3	
	c.) reactivity	3	
	d.) important physical properties	3	
	e.) usefulness of element	3	
	f.) common chemical combinations	3	
	g.) location of discovery and discoverer	3	
	h.) density	3	
i.) boiling point and melting point	3		
Total and Comments:			%