

## Unit 2: Matter and Chemical Change *End of Unit Project*

You will be assigned **1** of the individual **ELEMENTS** in the **PERIODIC TABLE**, then you must choose **1** of the activities below to complete the Periodic Table part of the End of Unit Project Assignment

Element Reference Card			Element Mobile			PowerPoint Presentation		
Construct an element booklet (like the Safety Manual) that informs your peers about your element.			Construct a hanging mobile that informs your peers about the element you researched. You will need to make a 6-sided cube. On each page you should include the following information:			Power Point Presentation must include a minimum of 8 slides that complete the requirements listed below.		
Page	Information		Page	Information		Slide	Information	
1	Cover (Name, Number, Mass)	3	1	Symbol (Mass & Number included)/Credits	5	1	Cover (Name, Number, Mass)	3
2	History (When, By Whom, Origin of Name)	3	2	History (Brief)	5	2	History (When, By Whom, Origin of Name)	3
3	Physical Properties	5	3	Physical Properties (Point Form)	5	3	Physical Properties	5
4	Chemical Properties	5	4	Chemical Properties (Point Form)	5	4	Chemical Properties	5
5	Occurrences (Abundance, Where it can be found)	3	5	Occurrences/Abundance	5	5	Occurrences (Abundance, Where it can be found)	3
6	Uses (Descriptions)	5	6	Practical Applications (Uses)	5	6	Uses (Descriptions)	5
7	Applications (Illustrations)	5				7	Applications (Illustrations)	5
8	Credit Page (Designed by / References)	1				8	Credit Page (Designed by / References)	1
Total Possible		30	Total Possible		30	Total Possible		30

**Internet links to assist you with your research for each of these choices:**

<http://www.webelements.com/>

<http://www.chemicalelements.com/>

<http://pearl1.lanl.gov/periodic/default.htm>

<http://www.chemsoc.org/viselements/>

<http://www-tech.mit.edu/Chemicool/>

Animated Vocal Tune – ‘The Elements’ <http://www.privatehand.com/flash/elements.html>

<http://www.uky.edu/Projects/Chemcomics/>

**You must also choose **1** of these CHEMISTRY Projects to complete the End of Unit Project Assignment**

### Description of Project Goals

- To create a **3D Ionic and Molecular Comparison Model** that shows the differences between the two different types of molecules.
- To design and construct an **Identification Kit** that will help students Identify unknown chemicals found in the science lab.
- To prepare a **3D Timeline** which summarizes the story of how the theory of matter evolved.

### Background:

#### **Ionic / Molecular Comparison Model**

(Alone, w/partner)

Section 3 (3.2 & 3.3)

#### Specifications:

( Comparative Molecular Models )

Use of materials is open  
Both models must be 3D and represent common examples of each type of molecule

Complete Details for these choices can be found here ( **Grade 9 - Unit 2 - Chemistry** ) ...

<http://www.edquest.ca/Notes/handoutindex.html>

#### **Forensic ID**

(Alone or, w/partner)

Unknown Chemical Identification

( Identification Kit )

Actual substances need not be included but each identification test should be covered

#### **3D Timeline Story of matter**

(Alone, w/partner, Group of 3)

Section 2 (2.1)

( 3D Timeline )

From 8000B.C. to Present Day Theories of Matter have evolved based on new scientific investigations and discoveries.

### Evaluation:

**Element Product: 15%**

Self-Evaluation

#### **Presentations:**

Peer Evaluation

Teacher Analysis

**5%**

**5%**

**5%**

**Chemistry Project: 40%**