

NAME: _____

Follow the links to complete the web-quest. Clickable links are in Google Classroom.

ELEMENTS, COMPOUNDS and MIXTURES WEBQUEST

Part 1: ELEMENTS, COMPOUNDS and MIXTURES

<http://www.chem.purdue.edu/gchelp/atoms/elements.html>

What are the visual differences between elements, compounds and mixtures? Fill in the chart below using bullet points.

ELEMENTS	COMPOUNDS	MIXTURES

Part 2: MIXTURES vs COMPOUNDS

<http://chemed.chem.purdue.edu/genchem/topicreview/bp/ch2/mixframe.html>

(Hint: Scroll down the page)

1. What are some differences between mixtures and compounds?
2. How can cereal relate to mixtures and compounds?

PART 3: ELEMENT, COMPOUND OR MIXTURE?

<http://www.funtrivia.com/playquiz/quiz148865110c980.html>

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

PART 4: SOLUTIONS and MIXTURES

http://www.chem4kids.com/files/matter_solution.html

Is a heterogeneous mixture a solution? How do you know?
Define solute.
Define solvent.
What are the steps to making a solution?
Can anything change solutions? Be specific!
What is solubility?

Part 5: Element Overview

A. Now go to this link: <http://chemistry.about.com/od/chemistryfaqs/f/element.htm>

1. What is the definition of an element given on this page?

B. Now go to this link: <http://education.jlab.org/qa/element.html> and answer the questions below:

1. What is the definition of an element given on this page? _____

C. Now Click on the link for “What is the difference between atoms and elements? Or find the link: http://education.jlab.org/qa/atoms_and_elements.html Answer the questions below.

1. Define element _____
2. Define atom _____
3. Define molecule _____
4. Define compound _____

D. Find the link: http://www.chem4kids.com/files/elem_intro.html Read the page and answer the questions below.

1. How many atoms are in our bodies? _____
2. How many different elements are in our bodies? _____
3. Name the 6 elements that make up 95% of our bodies. _____.

Part 6 – Molecules and Compounds

A. Find the link: <http://education.jlab.org/qa/compound.html> and answer the questions below.

1. What is formed when two or more atoms join together chemically? _____
2. What is formed when two or more *different* kinds of atoms or elements join together chemically?

3. A _____ is always a molecule, but a _____ is not always a compound.
4. Provide the chemical symbol for three molecules that are not compounds: _____, _____, and _____.
5. Name 3 common compounds, using both their chemical symbol and their name: _____, _____, and _____.
6. One molecule of water contains _____ hydrogen atoms and _____ oxygen atom.
7. One molecule of carbon dioxide contains _____ carbon atom and _____ oxygen atoms.

