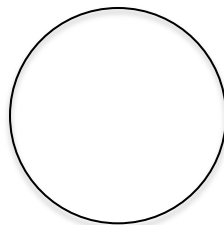
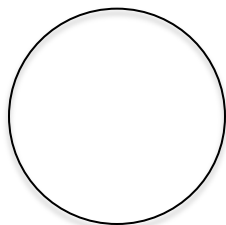


Elements, Compounds, and Mixtures – OH MY!

Name _____

Part 1 - <http://www.chem.purdue.edu/gchelp/atoms/elements.html>

1. Look at the microscopic view of the Elements. Draw what you see.



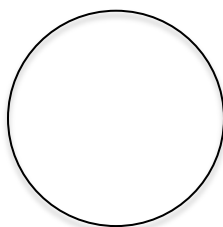
What are three facts about Elements?

Fact 1

Fact 2

Fact 3

2. Look at the microscopic view of the Compounds. Draw what you see.



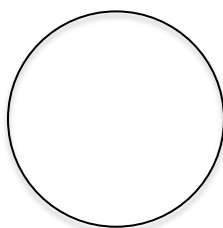
What are three facts about Compounds?

Fact 1

Fact 2

Fact 3

3. Look at the microscopic view of the Mixtures. Draw what you see.



What are three facts about Mixtures?

Fact 1

Fact 2

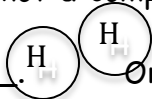
Fact 3

Part 2 - Compounds http://www.chem4kids.com/files/atom_compounds.html

1. Molecule - the general term to describe _____

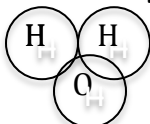
2. All compounds are molecules, but not all molecules are compounds.

Hydrogen Gas (_____) is a molecule, but not a compound because _____



One molecule of Hydrogen = two hydrogen atoms

Water (_____) can be called a molecule, or a compound because _____



One molecule of water = 2 hydrogen + 1 oxygen atom

Part 3 - Compounds Continued -

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

Take the quiz and record your answers below.

| | |
|----|--|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |
| 7 | |
| 8 | |
| 9 | |
| 10 | |

Your Score _____

Part 4 - Mixtures http://www.chem4kids.com/files/matter_mixture.html

1. Mixtures are everywhere, rocks, oceans, even in the atmosphere. Mixtures are about _____ properties, not _____ ones. This means that molecules enjoy being near each other, but their fundamental _____ structure does not change.

2. You could separate salt (NaCl) from water (H₂O), by _____.
You would have the _____ left over. This works if the salt was _____ in the water. In a mixture of salt and iron, you could separate them by _____.

You could get sand and water separated by _____ the water away.

3. Use what you read to think of ways to separate the following mixtures...

Mixture #1
Kool-Aid

Mixture #2
Cereal and Milk

Mixture #3
Italian Salad Dressing

Part 5 - Mixtures Continued http://www.chem4kids.com/files/matter_solution.html

1. There are two types of mixtures (H words)

_____ and _____

Place the following words or phrases in the correct box below based on the reading.

1. Solution 2. Spread out 3. Distributed evenly 4. Water 5. Sugar water
6. Sand water 7. Gasoline 8. Blood 9. Soil 10. Pop

Heterogeneous

Homogeneous