

Name _____

Basic Chemistry Review

<p>Draw and label a picture that shows the current thinking about atomic structure:</p>	<p>OR</p>	<p>Describe the electron cloud model:</p>
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<p>Draw and label a picture that shows isotopes:</p>	<p>OR</p>	<p>Describe an isotope:</p>
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<p>Draw and label a picture that shows an ion</p>	<p>OR</p>	<p>Describe an ion:</p>
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<p>Draw and label a picture of a molecule:</p>	<p>OR</p>	<p>Describe a molecule:</p>
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Draw and label a picture of how a molecule is formed:	OR	Describe how a molecule is formed:
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Materials:

1 paper plate
Candy chips
Toothpick

Vanilla wafers
Candy Sprinkles
Plastic spoon

Frosting
Plastic knife

Procedure:

1. Put a vanilla wafer on your paper plate.
2. Use the plastic knife to scoop some frosting out of the can and put it on your paper plate.
3. Use the plastic spoon to scoop out a few candy sprinkles and chips.
4. Use your toothpick to spread the frosting on your cookie.
5. Put the candy chips / sprinkles on the frosted cookie to model an atom with an atomic number between 5 and 12.
6. Draw and label your atom here:

*Teacher
Initials:*

7. Use another vanilla wafer and make a model of an isotope of your atom.
8. Draw and label your isotope here:

*Teacher
Initials:*

9. Use a third vanilla wafer to make a model of an ion of your atom.
10. Draw and label you ion here:

*Teacher
Initials:*

11. Take your last vanilla wafer and use it and one of your other models to show how a molecule is formed.
12. Draw and label your molecule here:

*Teacher
Initials:*

Questions:

1. Which element did you choose?
2. What is the symbol for this element?
3. How do you know how many protons are in an atom of this element?
4. How do you know how many electrons are in an atom of this element?
5. How do you know how many neutrons are in an atom of this element?
6. Describe a way for you to learn atomic structure:
7. Describe a way for you to learn the difference atom, ion, and isotope: