**FPS – Density and Fluid Interactions**

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period\_\_\_\_\_\_\_\_\_\_

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| I can… |
| *Calculate density.*  *Describe fluid interactions.*  *Distinguish between chemical symbol and chemical formula.* |

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| ***Bellwork Questions – Complete quietly on your own first!*** | |
| 1. What is density? |  |
| 1. If a block of aluminum has a mass of 270 grams and a volume of 100 ml, what is its density? Will it sink or float in water? |  |

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| ***Notes*** |
| 1. Density 🡪 |
| 1. Density of water is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. If a material has a density \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ it will \_\_\_\_\_\_\_\_\_\_\_\_\_\_. If a material has a density \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ it will \_\_\_\_\_\_\_\_\_\_\_\_\_\_. |
| 1. Immiscible 🡪 |
| 1. Chemical formula 🡪   Chemical symbol 🡪 |
| 1. **Answer the following questions** using your notes.   What is the density of oil if its mass is 9.2 g and its volume is 11 cm3? What will the oil do when poured into a cup of water?  Which type(s) of pure substances would have a chemical formula?  Which type(s) of pure substances would have a chemical symbol?  Which types of matter would have neither?  If oil and water are immiscible, what is an example of two **miscible** fluids? |