**Lava Lamp – What Happens?**

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| **Action/Reaction** | **Why** |
| Oil floats on top of water |  |
| Why does the food coloring mix with the water, not the oil? |  |
| What does the tablet make when it starts to dissolve? |  |
| Why does this substance float to the top? |  |
| What happens when you add salt? |  |
| What happens when you add more pieces of an effervescent tablet? |  |
| What happens when you put the top on the bottle after dropping in the tablet? |  |

**Lava Lamp – What Happens?**

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| --- | --- |
| **Action/Reaction** | **Why** |
| Oil floats on top of water | *Water is less dense, or lighter, than oil.* |
| Why does the food coloring mix with the water, not the oil? | *Food coloring has the same density as water so it sinks through the oil and mixes with the water.* |
| What does the tablet make when it starts to dissolve? | *Gas; carbon dioxide* |
| Why does this substance float to the top? | *It’s lighter than water.* |
| What happens when you add salt? |  |
| What happens when you add more pieces of an effervescent tablet? |  |
| What happens when you put the top on the bottle after dropping in the tablet? |  |

***Density*** *is a measurement of how solid something is. Specifically it is the mass per unit volume of a substance. If you have two objects of the exact same size (volume), the more dense object will weigh more than the less dense object.*