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| **Activity title** |
| **Snow blizzard in a jar** |
| **Stay safe** |
| Whether you are a scientist researching a new medicine or an engineer solving climate change, safety always comes first. An adult must always be around and supervising when doing this activity. You are responsible for:    • ensuring that any equipment used for this activity is in good working condition  • behaving sensibly and following any safety instructions so as not to hurt or injure yourself or others    Please note that in the absence of any negligence or other breach of duty by us, this activity is carried out at your own risk. It is important to take extra care at the stages marked with this symbol: ⚠ |
| **Time required** |
| 5 minutes for experiment (30 minutes with set up and discussion & 45 minutes for variations) |
| **Activity summary** |
| Create your very own snow blizzard in a jar using things you should be able to find around the house. |
| **By the end of this activity, you will be able to:** |
| See how two liquids with different levels of viscosity, will not mix together and instead the oil will sit on top of the water.  Watch as a chemical reaction takes place between an effervescent tablet and the water, releasing Carbon Dioxide as a gas.  It captures white paint inside its bubble and lifts it up through the layer of oil and then drops it down again when the bubble bursts as it reaches the air at the surface of the oil. |
| **What equipment will you need?** |
| * 1 x glass jar * baby oil (enough for half your jar) * cold water (enough for half your jar) * white paint (a good splodge) * biodegradable glitter (sprinkle) * effervescent tablets. |
| **How to do it** |
| * Pour enough baby oil to fill almost halfway up your jar * Mix the white paint into your water * Pour the white paint water mixture into your jar   **Notice: What happens to the white paint mixture and the oil?**   * Sprinkle in the glitter * Pop an effervescent tablet into the jar   **Notice:** **Can you see what happens to the tablet in the water?**  **What happens to the glitter in the oil?** |
| **Now try this** |
| 1. Adding more tablets 2. Adding half a tablet 3. Adding different amounts of oil and water 4. Adding more or less glitter |

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| **What results were expected for each variation?** |
| Insert results here…   1. Adding more tablets 2. Adding half a tablet 3. Adding different amounts of oil and water 4. Adding more or less glitter |