**Make a Cloud Form in a Jar**

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**Aim**: create and and learning about clouds

**Age**: 7-11 yo

**Complexity**: Low- Medium

**Cost**: £5-10

**Location**: indoor

**Materials & Equipment**

* Transparent Glass Jar with a Lid
* 1 cup Boiling Water
* Food Coloring (optional)
* Aerosol Hairspray
* 3-5 cubes of Ice

**Outline:**

1. Pour the hot water in the jar. Fill approx. less than half of the jar with the hot water. You can add food colouring to the water to distinguish it from the cloud.
2. Quickly spray the hairspray into the jar.
3. Immediately close the jar with the lid.
4. Place 3-5 pieces of ice on the top of lid of the jar.
5. Watch carefully the top of the jar: *is a cloud forming?*
6. Open the lid to see the cloud float out.

**RISK ASSESSMENT**

**Adult supervision is required for any experiment!**

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| --- | --- | --- | --- |
| HAZARD | Likelihood and Seriousness of Injury | Control Measures | Remaining Risk |
| Hairspray - eye contact, inhalation, or ingestion | Likelihood 3/10  Severity 3/10 (irritation to eyes and breathing) | Demonstrate how to aim the spray, monitor children handling hair spray, do not allow to spray at each other or for prolonged times.  If hairspray gets into the eye – wash with plenty of water.  If hairspray is inhaled, breath out and take a few slow deep breaths of fresh air, open windows | Very Low |
| Boiling water - skin burns/scalding | Likelihood 3/10  Severity 5/10 | Parents should carry out handling of hot water.  Explain to children about hot jar and how to handle it, monitor children around hot water containers.  Use towel/heat protective gloves to handle the jar. | Low |
| Ice – mild skin burns | Likelihood 3/10  Severity 2/10 | Do not allow children to hold ice for longer than few seconds, preferably do use tools/towel to handle ice | Very Low |

**First Aid:**

**If hairspray is inhaled – take deep breaths of fresh air, ventilate the room;**

**If hairspray gets in contact with eye – rinse with plenty of warm water.**

**If burns/scalds occur - rinse the area for 10 minutes in likewarm water, do not use ice or ice-cold water or any greasy substances.**

**Remember - never do experiments alone!**