­­­­­­­­**Purpose**: To test if it is possible to prevent a mirror from fogging up.

# Preventing fog

**Vocabulary:** mirror, water, pot, hot, cold, fog, paper towel, different everyday products, to rub, to wipe, control area, streaking, clear, reflection

Be careful with the hot water! Be aware of the safety rules for the products you use! When using toothpaste be aware that the toothpaste contains abrasives, which is why it should be rubbed on gently to avoid scratching the mirror.

**Material:**

* mirror (or window)
* hot steaming pot of water
* masking tape
* paper towels
* different products to test (e.g. shaving cream, bar soap, toothpaste, mouthwash, hand cleaner, baby shampoo and saliva)

**Procedure:**

1. Divide the bottom of the mirror into sections: one section for each of the substances you want to test, and one section to use as a control area.
2. Use a clean paper towel to rub the test substance onto one section of the mirror. Make sure you cover the whole section.
3. Lightly wipe with a fresh paper towel to remove any streaking so the section is nice and clear. Be careful not to wipe off the layer you put on - just make sure you can see your own reflection clearly.
4. Repeat the procedure with all of the products you wish to test. Remember you need to leave one section blank, so it can function as a control area.
5. Bring the pot of hot steaming water close to the mirror and move it around all the sections.
6. Observe which sections are fogging up.

