Have You Touched Space Today? (Answer Key)

When you go out at night and look at the sky what do you see? What’s out there? Is it empty? NO! Space contains clouds that are full of gases and dusts which are made up of molecules: molecules that we use every day.

**Molecular Match-Ups**

Match the space chemical with its occurrence on earth.

1. Ferrous Oxide  (Tattoo pigment)
   ![Ferrous Oxide](image1)

2. Potassium Chloride  (Fertilizer ingredient)
   ![Potassium Chloride](image2)

3. Formic Acid  (Found in ant stings)
   ![Formic Acid](image3)

4. Ethanol  (Active ingredient in hand sanitizer)
   ![Ethanol](image4)

5. Ethylene  (Given off when bananas ripen, also causes ripening in other fruits)
   ![Ethylene](image5)

6. Methane  (Major component of natural gas)
   ![Methane](image6)
Home Lab Activity: Space Molecule Scavenger Hunt

Take a walk through your home and read labels. What are these molecules found in? Do they have more common names? What are they used for? Do they smell? Do they have any other unique properties? Write a short paragraph about each, including where in your home you found them.

1. Sodium Hydroxide. Also known as caustic soda is a main ingredient in many drain clog removal products.
2. Ammonia. Used as a household cleaner (ingredient in Windex). Ammonia Salts are also found in fertilizers.
3. Acetic Acid. Also known as vinegar. Used in cooking, baking, cleaning, and making baking soda volcanoes.
5. Ethylene Glycol. Main ingredient in antifreeze.