

Counting Atoms Sheets

Understand the relevance of chemical formulas in everyday products.

1. How many hydrogen atoms are in a molecule of common table sugar
2. Examine the formula for vinegar and count the total number of atoms.
3. Calculate the number of oxygen atoms in the caffeine molecule.

Explore the composition of substances found in space

1. Count the number of atoms in a molecule of water, commonly found in space.
2. How many hydrogen atoms are in ammonia, found in the interstellar medium?
3. Determine the atomic composition of methane found on Mars..
4. Calculate the total number of atoms in a molecule of acetylene, which has been detected on Titan, Saturn's moon.
5. Assess the number of carbon and hydrogen atoms in benzene, a molecule detected in the atmosphere of gas giants.