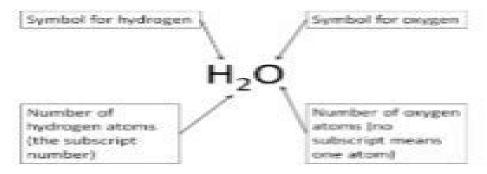
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STAAR Science Tutorial 02 TEK 8.5D: Chemical Formulas

TEK 8.5D: Recognize that chemical formulas are used to identify substances and determine the number of atoms of each element in chemical formulas containing subscripts.

Chemical Formulas

- A <u>chemical formula</u> is a description of the number and kind of atoms found in a single molecule of a substance, using the symbol for each element and a subscript number to state the number of atoms of the element to the left of the subscript.
- Scientists use chemical formulas such as NaCl instead of common names (table salt) or chemical names (sodium chloride) because it is shorter, more accurate, and universally understood.
- Examples of chemical formulas include H₂O (water), CO₂ (carbon dioxide), HC₂H₃O₂ (vinegar), NaHCO₃ (baking soda), NH₄ (ammonia), and C₆H₁₂O₆ (glucose).



 If asked how many different elements are in a chemical formula, remember that each element symbol starts with a capital letter. But be careful to not count an element twice if repeated in the formula. In HC₂H₃O₂, there are only three elements, carbon, hydrogen and oxygen, even though there are four capital letters. (The H symbol is repeated twice in the formula.)

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