

Compounds and formulas matching pairs game

Learning objectives

- 1 Name compounds from their formulas and vice versa.
- 2 Recall the names and formulas of common compounds.

Introduction

To play this game you need a set of compounds and formulas cards. Half of these have the names of common compounds. The other half have the chemical formulas for those compounds. The aim of the game is to match each compound to its formula. You can play the game in a small group, with a partner or on your own.

How to play

1. Lay all the cards on the table face up.
2. Match the compound names with the formulas.
3. Record the matched pairs in the table on the next page.

Single-player game

1. Lay all the cards on the table face down.
2. Turn two cards over.
 - If they are a matching pair (compound name and formula), then pick them up and keep them.
 - If they are not a pair, turn them back over, face down.
3. Continue until you have paired up all the cards.
4. Record the matched pairs in the table on the next page.

Multi-player game

1. Lay all the cards on the table face down.
2. Player one turns two cards over.
 - If they are a matching pair (compound name and formula), then player one picks them up and keeps them. Player one can have another go.
 - If they are not a pair, player one turns them back over, face down. Then the next player has a turn.
3. Continue until you have paired up all the cards. The winner is the player with the most pairs.
4. Record the matched pairs in the table on the next page.

Compounds and formulas

When you have successfully matched a pair, add the formula to the table below.

Compound	Formula
Ammonia	
Carbon dioxide	
Methane	
Water	
Hydrochloric acid	
Sulfuric acid	
Calcium oxide	
Iron oxide	
Lead oxide	
Sodium hydroxide	

Compound	Formula
Barium chloride	
Sodium chloride	
Calcium carbonate	
Copper carbonate	
Sodium carbonate	
Potassium nitrate	
Silver nitrate	
Barium sulfate	
Copper sulfate	
Sodium sulfate	