

**Skills and Strategies**

- Planning and Conducting
- Processing and Analyzing
- Evaluating
- Communicating

**What You Need**  
(suggested)

- craft materials
- computer access

## How can you make a game out of names and formulas of ionic compounds?

Apply your creativity and knowledge to design a game to let you and your classmates practise naming and writing formulas for ionic compounds.

### Question

How can you design a game based on names and formulas of ionic compounds?

### Procedure

1. Work in groups to come up with a game that involves the names and formulas for ionic compounds. Ask the following questions as you design your game:
  - What type of game will it be? a card game? a board game? a puzzle game? a computer game? a dice game?
  - What ions will you include in your game?
  - How will you include opportunities for naming and making formulas?
  - What will the rules for your game be?
  - What pieces will you need to make, if any?
2. Make a plan and produce your game.

### Process and Analyze

3. Test your game several times within your group. Make adjustments to the game rules and pieces as necessary.
4. Set up a games café within the class. Teach other groups how to play your game and try out the games of other groups. Offer feedback on game play, accuracy of science content, and quality of game components.

### Conclude and Communicate

5. Which was your favourite game, and why?
6. What worked well about the game you designed? If you were to try to market your game to science classrooms, what changes would you make, and why?

