

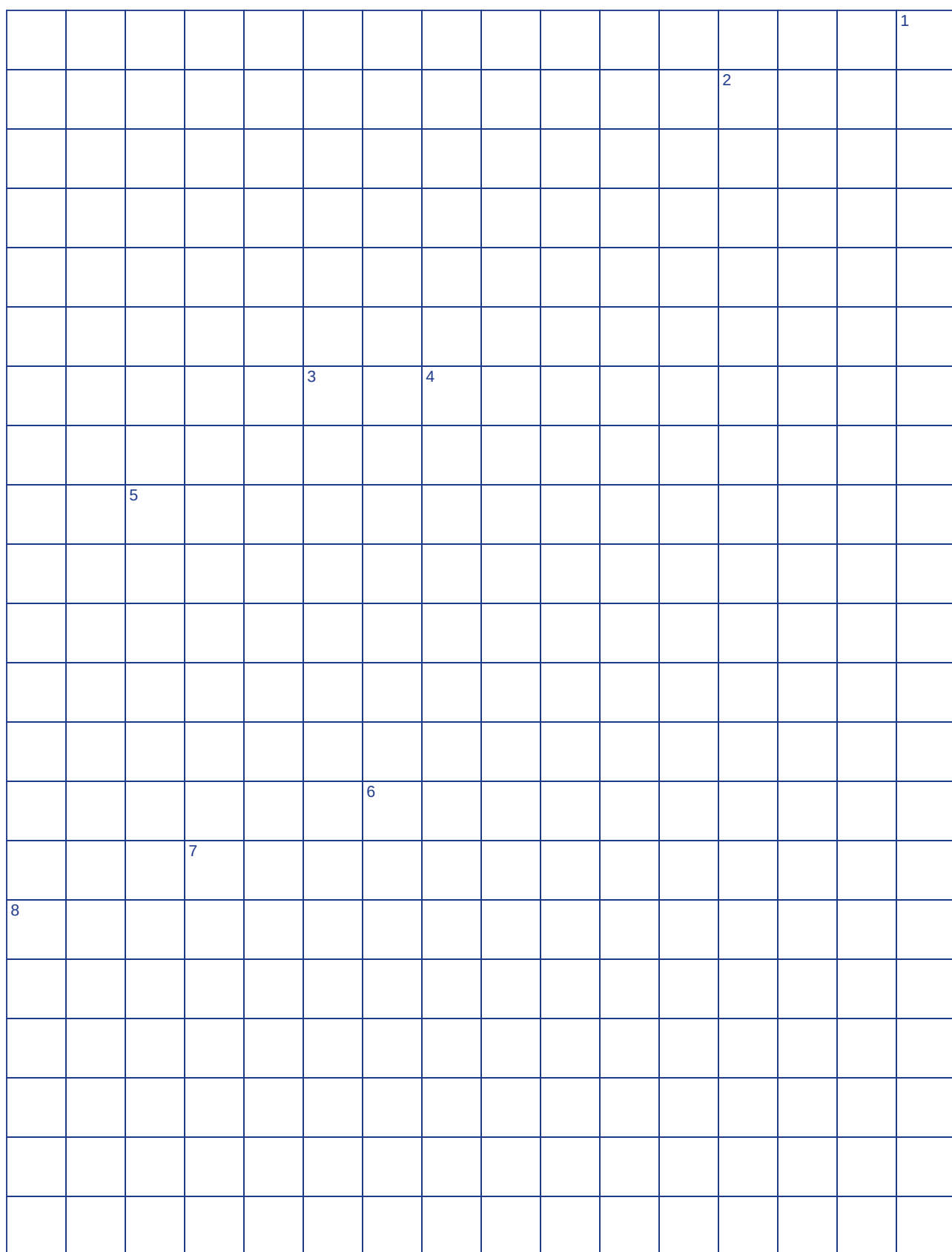
Cells and Systems Crossword

In Grade 8 science, you study how living things are organized and how their body systems work together. This crossword covers key ideas from cells and systems: the cell membrane that controls what enters and leaves a cell ([Outcome](#)), how your body breaks down food through digestion ([Outcome](#)), how circulation moves blood throughout your body ([Outcome](#)), how respiration exchanges gases in your lungs ([Outcome](#)), how diffusion moves substances across cell membranes ([Outcome](#)), how your body responds to a stimulus ([Outcome](#)), what an organism is as a living thing ([Outcome](#)), and how excretion removes waste ([Outcome](#)). Solve the clues and fill in the grid to test your understanding of these systems.

How to play

Read each clue carefully. Write your answer in the grid, one letter per square. Clues marked "Across" run left to right. Clues marked "Down" run top to bottom. Some words will share letters where they cross, so check that shared letters match in both the across and down words.

Puzzle grid



Clues

Across

3. Body system that carries oxygen and nutrients throughout the body (11)
4. Movement of gases and liquids into and out of cells based on concentration differences (9)
5. A change in the environment that causes a body to react or respond (8)
6. Body system that removes waste products from the body (9)

Down

1. Thin layer that surrounds a cell and controls what enters and exits (8)
2. Body system that breaks down food and absorbs nutrients (9)
3. Body system that exchanges oxygen and carbon dioxide with the environment (11)
4. A living thing with structure and function that responds to its environment (8)

Answer key

- **1 down:** MEMBRANE
- **2 down:** DIGESTION
- **3 across:** CIRCULATION
- **4 down:** RESPIRATION
- **5 across:** DIFFUSION
- **6 across:** STIMULUS
- **7 down:** ORGANISM
- **8 across:** EXCRETION

