

Cells and Systems Maze

This maze challenges you to navigate from Start to Finish while reviewing how living things are organized into cells, tissues, organs and systems that work together to keep an organism healthy. Along the path you will meet eight key terms: cell, membrane, organ, tissue, diffusion, osmosis, circulation and respiration. These words describe how organisms are built from small structures into whole working systems. Single cells and multicelled organisms both meet the same basic needs in different ways ([Outcome](#), [Outcome](#), [Topic](#)).

How to play

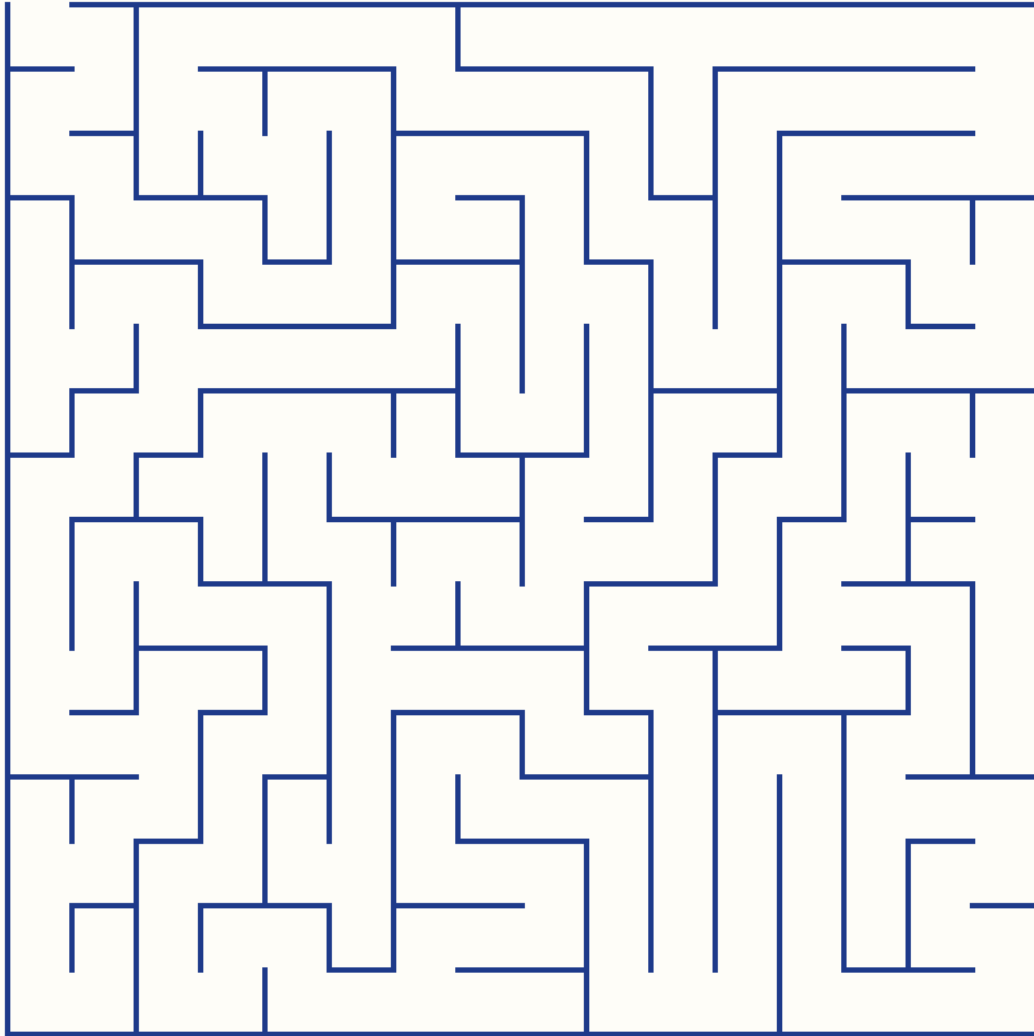
1. Start at the entrance of the maze and find the single unbroken path to the exit. There is only one correct route through the grid.
2. As you trace the path, watch for the eight vocabulary terms listed above. Each one connects to something you have studied in Unit B: Cells and Systems.
3. On a separate sheet or in the margin, write a one-sentence definition for each term as you pass it, using ideas from class: the cell as the basic unit of life ([Outcome](#)), the difference between plant and animal cells ([Outcome](#)), diffusion and osmosis as movement of gases and liquids based on concentration differences ([Outcome](#)), and the roles of organs and tissues in systems such as respiration and circulation ([Outcome](#)).
4. Do not backtrack through cells you have already used. A correct solution moves through the grid without crossing itself.
5. When you reach the exit, check that your list has all eight terms and that each definition is in your own words.

Time guide: 12 to 15 minutes for the maze, plus 5 minutes to check definitions with a partner.

The maze

Cells and Systems Maze

START

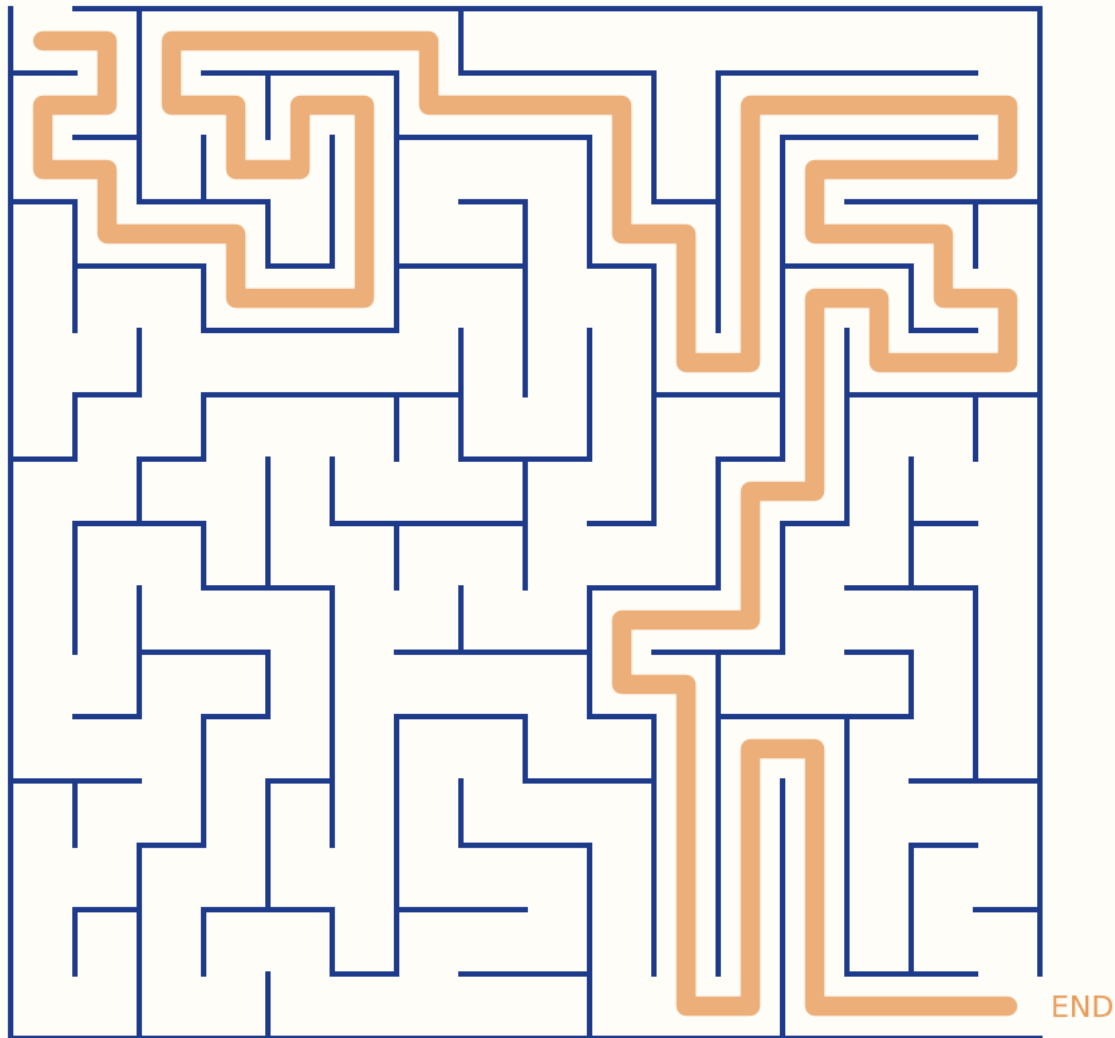


END

Maze

Answer key

START



END

Use the answer key only after you have attempted the maze on your own. Compare your traced path and your eight definitions against the key. Correct any term where your explanation does not yet match how cells, tissues, organs and systems work together to support a healthy organism ([Outcome](#), [Outcome](#)).