

Objective: Understand what a stem cell is
(Scottish curriculum: S1-3, Biological Systems SCN 4-13c)

Stem Cells Word Search

Different types of cells

Your body is made up of 210 different **types** of **specialized** cells. For example skin cells, blood cells and nerve cells. In your body these cells die every day because of wear and tear or injury. For example, red blood cells only live for about 100 days so your body needs to make new ones every day to replace the ones that die. Your body uses stem cells to make the new red blood cells.

Stem cells

Everybody has stem cells: a **human embryo**, a **baby** and you too. Stem cells are amazing because they can (1) make copies of themselves and (2) make other types of cells like skin cells, nerve cells or blood cells.

Scientists study stem cells to **understand** the development of cells and to study **diseases** such as cancer. In the future they want to use stem cells to **develop new drugs** and to find **treatments** for diseases including multiple sclerosis, heart disease and diabetes.

Look for the following words

| | | | | | |
|-------------|---------|-----------|------------|--------|------------|
| specialized | types | human | embryo | copies | understand |
| diseases | develop | new drugs | treatments | baby | stem cells |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T | I | I | S | G | U | R | D | W | E | N | T | K | F |
| V | Y | T | A | C | O | P | I | E | S | E | S | B | Q |
| W | C | Q | G | Y | C | B | C | S | M | P | T | A | Q |
| J | H | H | B | T | V | L | L | B | E | M | R | B | J |
| E | G | U | J | W | G | L | R | C | Q | N | E | Y | N |
| K | X | M | N | U | E | Y | I | J | V | A | A | W | C |
| I | T | A | L | C | O | A | I | Q | P | X | T | R | Z |
| Z | L | N | M | B | L | Y | G | O | K | R | M | H | I |
| L | T | E | U | I | N | T | L | B | J | V | E | Y | N |
| E | T | E | Z | W | O | E | Y | V | R | G | N | W | I |
| S | H | E | M | W | V | X | E | P | E | G | T | R | C |
| G | D | J | Y | E | N | B | O | K | E | L | S | G | R |
| X | M | F | D | L | D | I | S | E | A | S | E | S | W |
| T | V | D | N | A | T | S | R | E | D | N | U | A | R |