Year 8 Science: Hormones, the menstrual cycle, flowers and fungi

Name: _____ Date: _____

Try these without your notes first, then check the answer key.

Practice

1. Give the three parts of the definition of a hormone.

2. What happens to the lining of the uterus if an egg is not fertilised?

3. Which hormone made by the testes keeps sperm production going?

4. Put these in order: germination, pollination, seed dispersal, fertilisation, seed formation.

5. Why can a mould appear on bread in a closed bag, even though nobody put it there?

Fix the mistake

6. Correct this statement: "A hormone works on every cell it reaches in the blood."

7. Correct this statement: "A period is when the egg is released."

8. Correct this statement: "Pollination and fertilisation are the same thing."

9. Correct this statement: "Mushrooms grow from seeds."

Answer key (for parents and tutors)

1. Give the three parts of the definition of a hormone.
   A chemical messenger, carried in the blood, that changes how its target cells work.
2. What happens to the lining of the uterus if an egg is not fertilised?
   It breaks down and leaves the body as menstruation, a period.
3. Which hormone made by the testes keeps sperm production going?
   Testosterone.
4. Put these in order: germination, pollination, seed dispersal, fertilisation, seed formation.
   Pollination, fertilisation, seed formation, seed dispersal, germination.
5. Why can a mould appear on bread in a closed bag, even though nobody put it there?
   Mould spores are tiny and floating in the air everywhere, so some were already on the bread or in the bag and germinated.
6. Correct this statement: "A hormone works on every cell it reaches in the blood."
   A hormone travels everywhere in the blood but only changes the target cells that can respond to it.
7. Correct this statement: "A period is when the egg is released."
   The egg is released at ovulation, about halfway through the cycle; a period is the lining being shed when no fertilisation happened.
8. Correct this statement: "Pollination and fertilisation are the same thing."
   Pollination moves pollen to the stigma; fertilisation happens later, when the male gamete joins the egg inside the ovule.
9. Correct this statement: "Mushrooms grow from seeds."
   Fungi have no seeds; they grow from spores, which are single tiny cells.