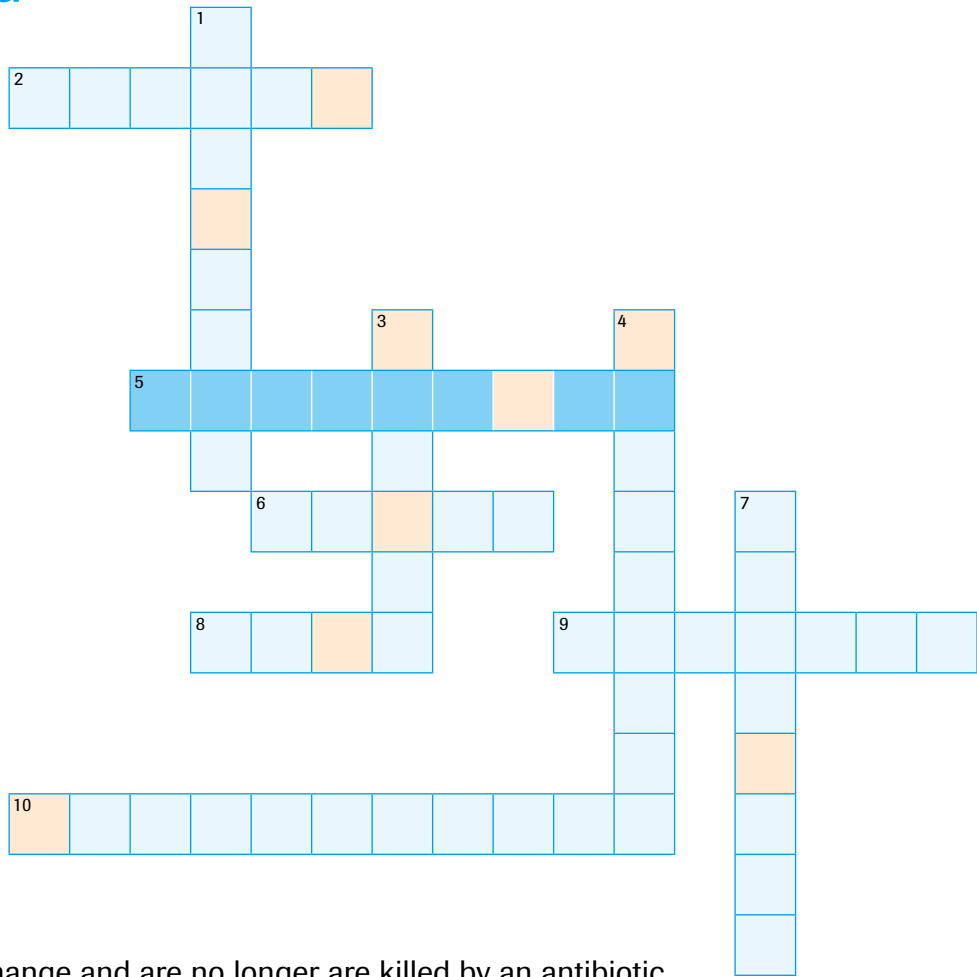


Bench to Bedside Virtual Workshop

Crossword



Across

- 2. Bacteria that change and are no longer are killed by an antibiotic.
- 5. The first phase in taking a drug from bench to bedside.
- 6. The number of phases in clinical trials.
- 8. Phase 3 clinical trials find the optimum _____ to give to patients.
- 9. Phase 1 clinical trials are conducted on these types of humans.
- 10. A type of drug that kills bacteria.

Down

- 1. A single celled living organism.
- 3. Antibiotics: finish the whole _____ or they won't work!
- 4. The technical term used for 'making' a new drug.
- 7. The term used to describe how the number of bacteria rapidly increase.

Extra challenge

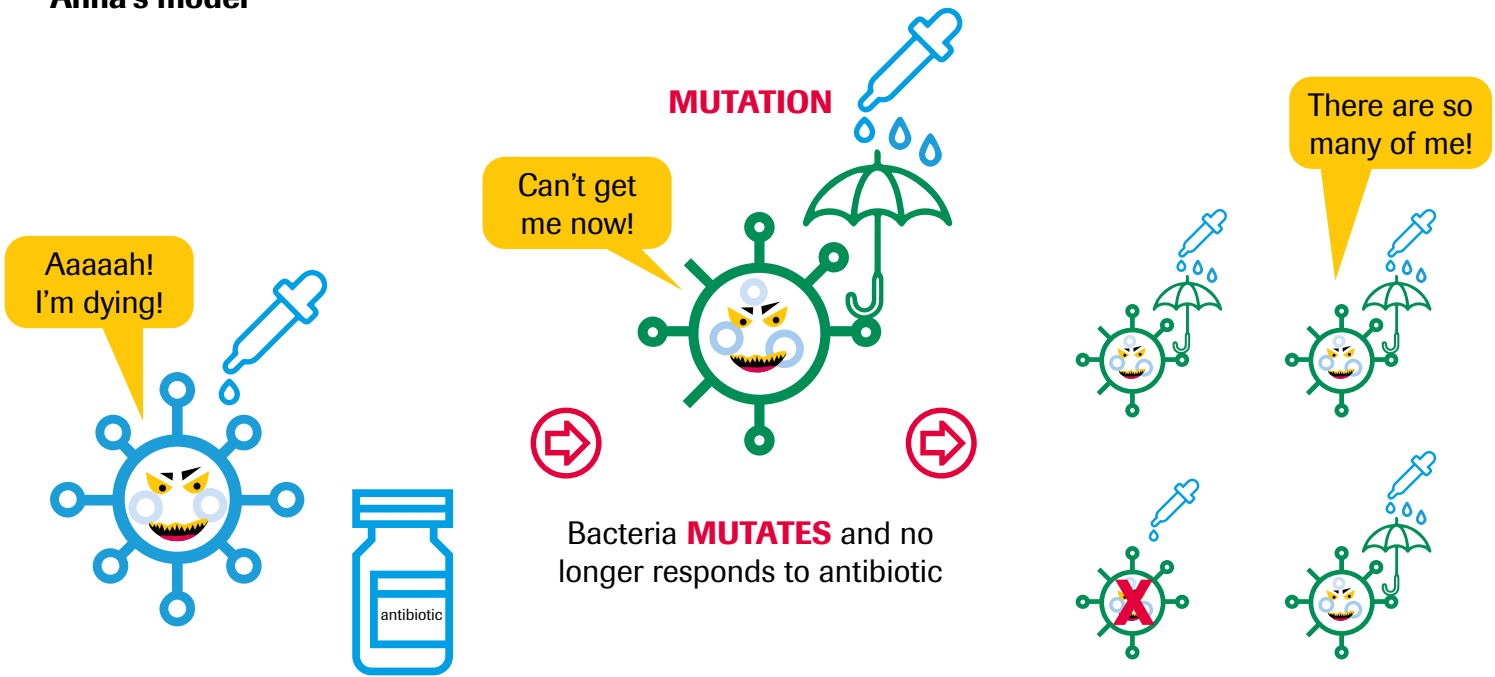
Pull out the letters from the orange highlighted boxes. Can you rearrange them to make a key term?

Extension activity

Modelling antibiotic resistance

Anna has created a model to help explain antibiotic resistance to primary school children. Take a look at her model and then answer the questions below.

Anna's model



An antibiotic is invented to kill that **SPECIFIC** bacteria

Mutated bacteria can multiply and make you unwell

Questions

1. What does the umbrella represent in Anna’s model? Explain your answer.

2. Describe one way that Anna’s model is a **good** way of explaining antibiotic resistance to primary school children.

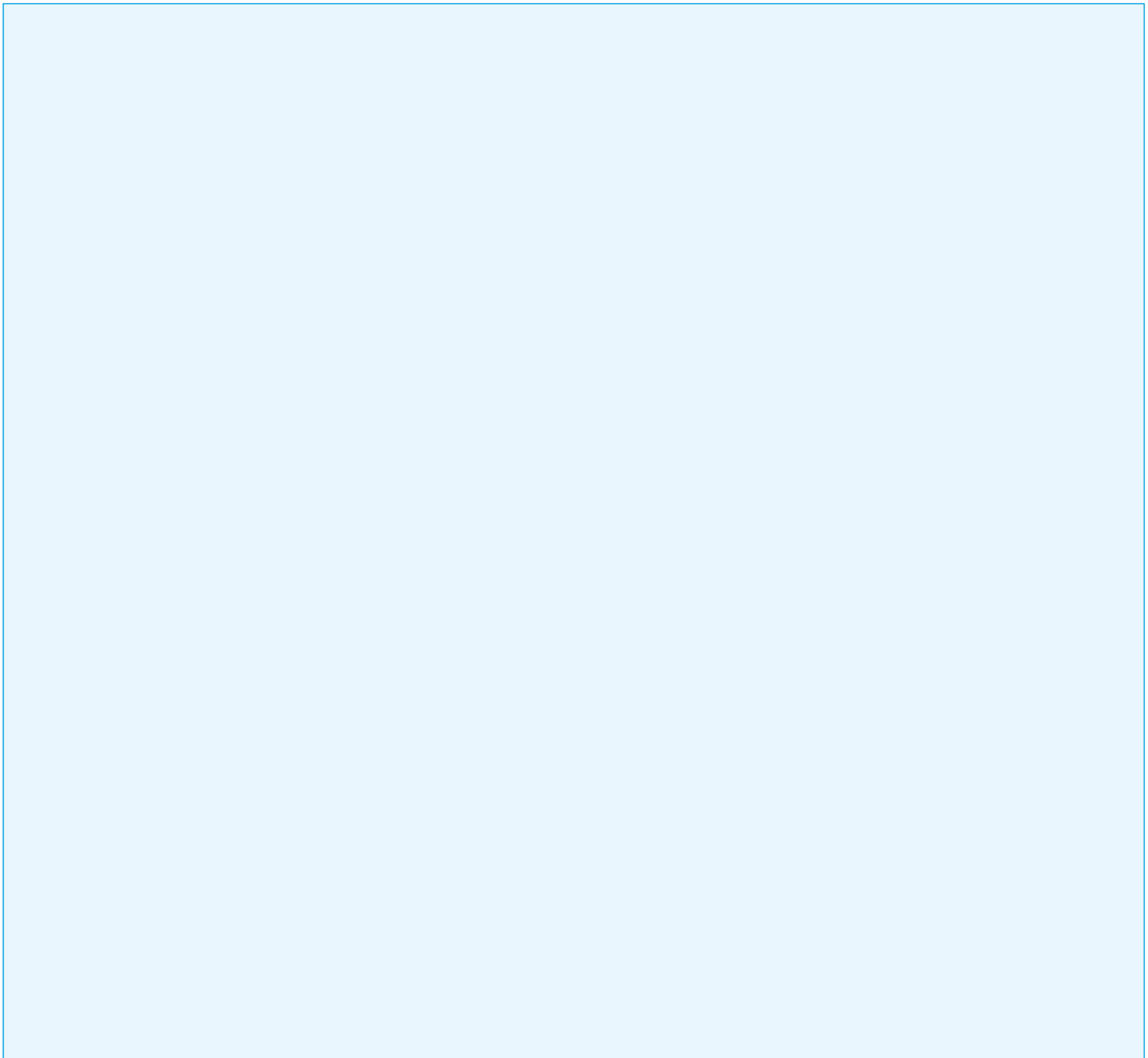
3. Describe one way that Anna’s model is a **bad** way of explaining antibiotic resistance to primary school children.



4. Suggest 3 ways you can improve Anna's model.

You could:

- Draw a labelled diagram of your new model, based on Anna's.
- Create an entirely new model and draw and annotate it.
- Build an improved physical model and take photos of it.
- Design a new model on a computer program such as Minecraft.
- Use stop go animation to tell the story of antibiotic resistance, providing an explanatory voice over.

A large, empty rectangular box with a light blue background and a thin blue border, intended for students to draw or write their answers to the task.