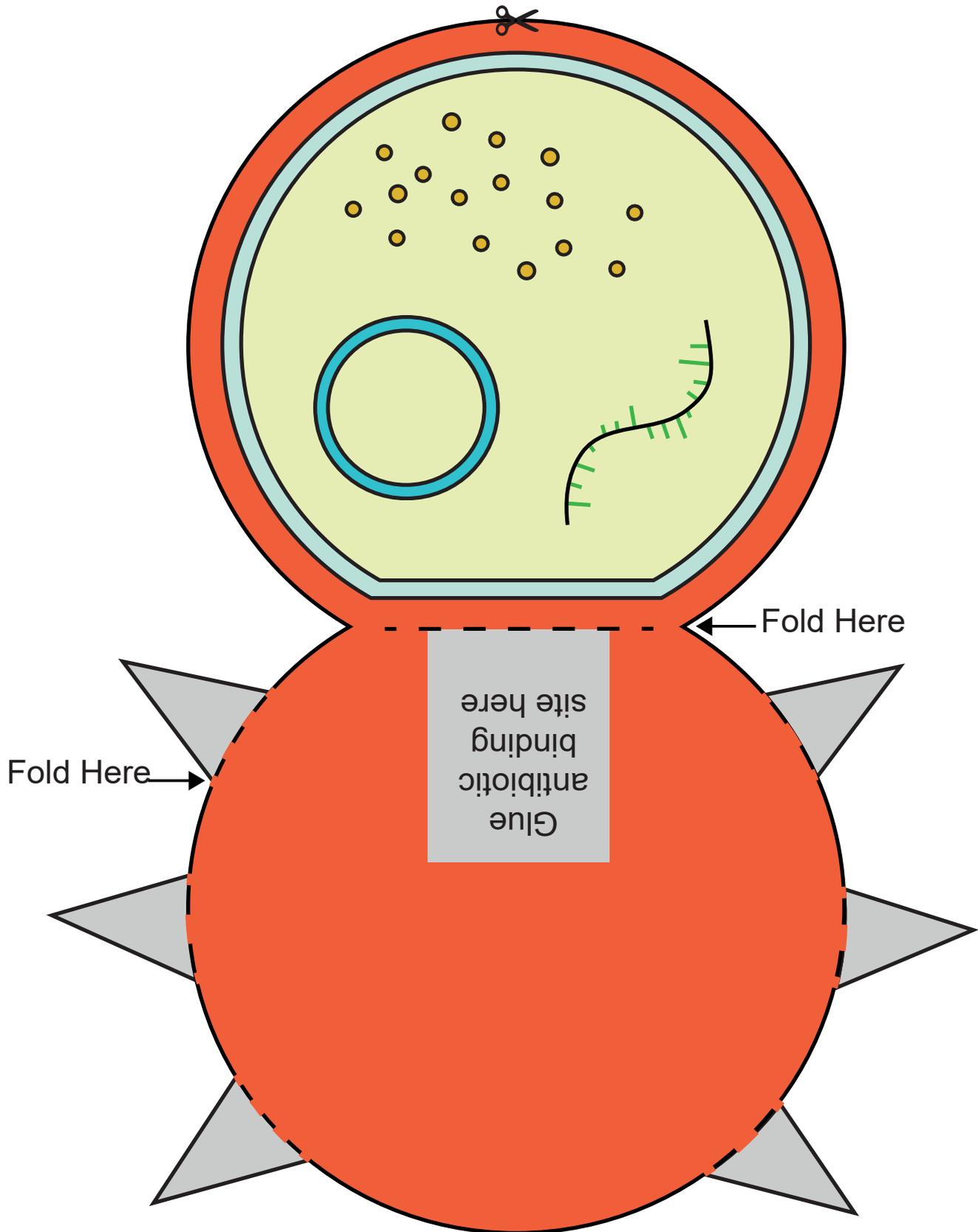


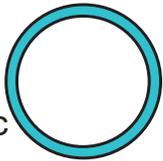
1. Make a Bacteria



2. What's in a Bacteria?

Here are your organelles and what they do in a bacteria

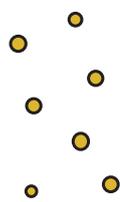
Plasmid
A DNA molecule that can contain code for antibiotic resistance.



RNA
Contains information to code for proteins to build the bacte-



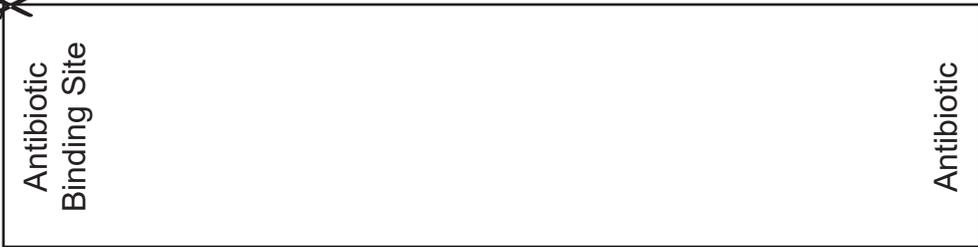
Ribosomes
A tool that uses RNA code to build proteins vital for bacterial life.



3. Make an Antibiotic & Antibiotic Binding Site for your Bacteria

Antibiotic Binding Site

Antibiotic



1. Make a Bacteria

1. Cut around the outside of the bacteria, along the solid line. Remember, cut as close to the line as possible.
2. Fold the grey triangles, along the dotted lines, into the circles.
3. Fold the bacteria in half along the centre dotted line.
4. Glue the grey triangles and stick them to the other side of circle.

2. What's in a Bacteria?

1. Cut the 3 bacteria organelles out (Plasmid, RNA, Ribosomes)
2. Place them inside your bacteria, on the top rounded side of your bacteria there is a little opening. See Diagram A.

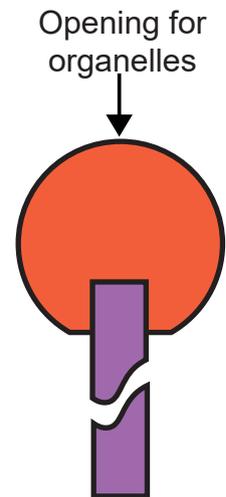


Diagram A

3. Make an Antibiotic & Antibiotic Binding Site for your Bacteria

1. Cut this antibiotic/antibiotic binding site rectangle out.
2. Draw a unique pattern over the WHOLE rectangle, make sure to fill all the space.
3. Cut a line down the middle. of your rectangle (Don't cut straight across, cut a wave or a zig zag.)
4. Glue the half which says "antibiotic binding site" onto the grey rectangle on your bacteria. Line it up so the cut edge hangs over the edge of the bacteria (See Diagram A) - this will be your antibiotic binding site.
5. The other half of your rectangle is your antibiotic - it should fit into your antibiotic binding site - like a jigsaw puzzle piece.
6. Try using the antibiotic of the person next to you on your bacteria's binding site. Does it match up?