

Your chosen cell:

Red Blood Cell



If you choose to upload a video file to Teams, try to keep recordings to less than 4 minutes.

## How to make red blood cell models

You will need:

Polymer clay in the following colours: red, pink, blue, white and green

Clay shaping tools

An oven

1. First take a large lump of red polymer clay and roll into a sphere
2. Next, use the palms of your hands to slightly flatten the sphere into a rugby ball shape
3. Then, press down into the centre of the shape to create an indent
4. Bake in an oven at 190F for 20 minutes
5. You have now created your red blood cell

## To make a cutaway red blood cell

1. First take a large lump of red polymer clay and roll into a sphere
2. Flatten the sphere using your hand to press down into a flat surface
3. You have now created the base to show the inside of a red blood cell.
4. Using a clay marking tool to score a circle shape approx. 5mm from the edge of the circle, this shows your cell membrane.
5. To create the oxygen, roll tiny white balls of clay and place inside of the cell membrane where the indent would be.
6. Next use the pink clay and roll slightly larger balls to represent iron. Place these in and around the smaller oxygen balls
7. To create the Beta polypeptide chain, take the green clay and roll into a long thin sausage shape.
8. Take the long shape and arrange in a squiggle inside the cell membrane wall.
9. To make the alpha polypeptide chain repeat steps 7 and 8 using a different colour.
10. Bake your cell model in an oven for 15-20 minutes at 190F.