

WHY DON'T PENGUINS FREEZE?

Why don't penguins freeze?

Most penguins live in and around Antarctica in the Southern Hemisphere. This means they have to be able to survive in extreme cold conditions. Penguins have several adaptations that allow them to stay warm when temperatures plummet.

Penguins produce oil from a gland near their tail which they spread over their feathers. This gives the feathers a waxy coating, allowing them to repel water. This activity uses wax crayon to demonstrate how wax acts as a water repellent.

You'll need

- Paper
- Felt tip pens / marker pens
- Colouring pencils
- Wax crayons
- Water
- Penguin template

Instructions

Colour one penguin from the template with wax crayon. This needs to be a thick coating, so go over each area a few times with the crayon.

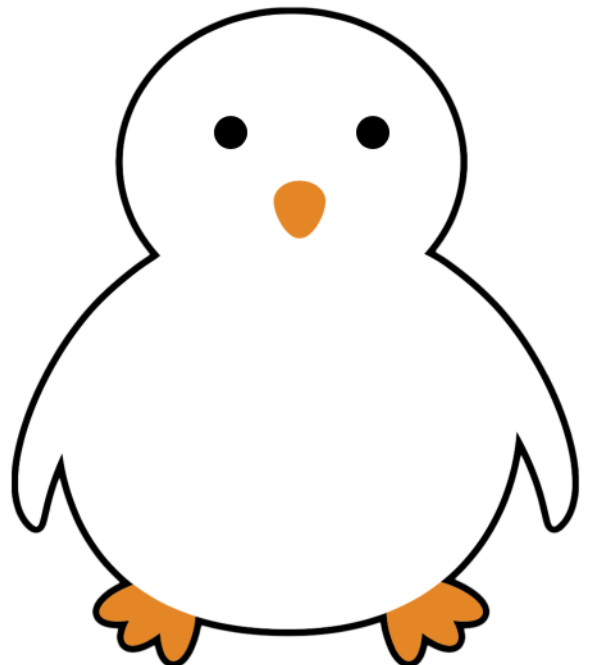
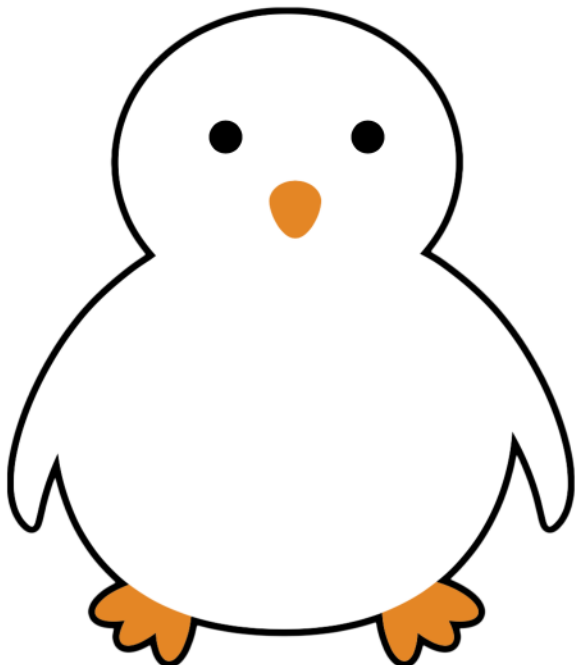
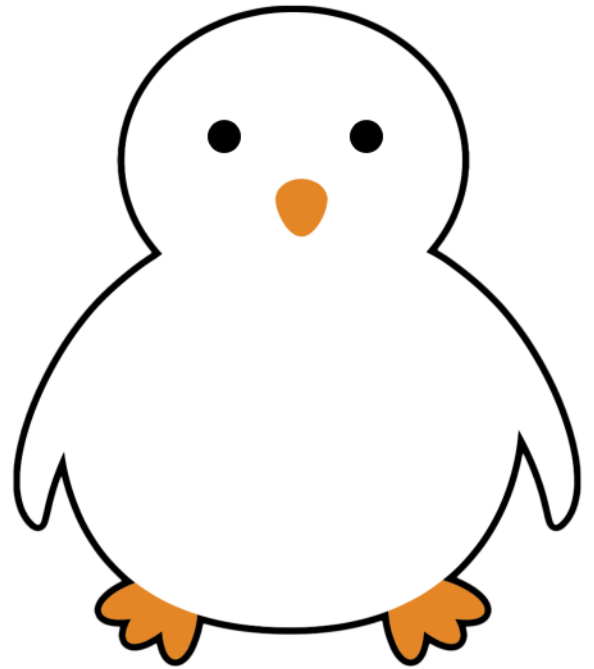
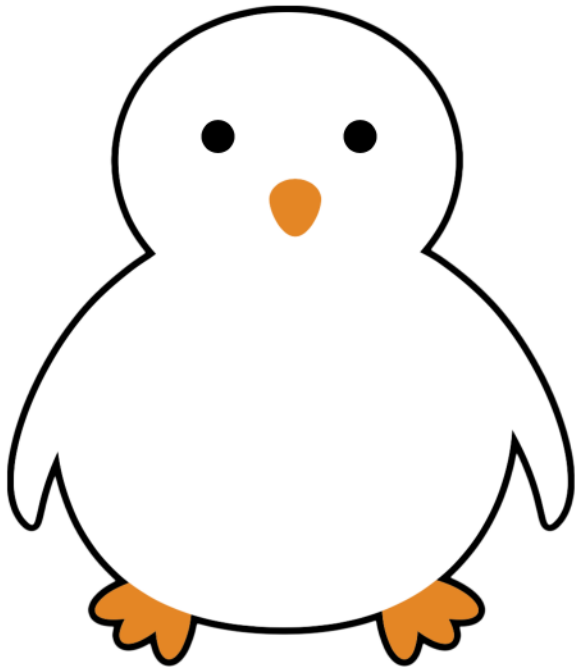
Leave the second penguin blank. This is the control.

Colour the last two penguins with two other types of pen. Marker pens (felt tips) or colouring pencils work well.

Carefully drop five drops of water onto each penguin, watch what happens to the water.



HOW DO PENGUINS STAY DRY?



Colour one penguin with wax crayon, leave one blank and colour the other two with a different type of pen, for example felt tips and colouring pencils.

Drop 5 drops of water onto each penguin.

Watch what happens to the water on each penguin.



Name of scientist _____

HOW DO PENGUINS STAY DRY?

I predict that the penguin covered in _____
will stay dry.

Materials

Method



Results

Conclusion



Next time I will.....

