

Living Things: Hot & Cold Habitats



1. How do animals survive in extreme hot and cold environments?

Animals have special features to survive heat or cold.

- Penguins have blubber and feathers to survive the cold.

3. Does the shape or size of ice affect how fast it melts?

We can test if crushed or whole ice melts faster.

- Keeping everything else the same makes it fair.

What do we want to find out?
Does blubber keep animals warm?

What you need:

- 2 bowls of cold water (add some ice)
- 2 zip-lock bags
- 1 rubber glove
- Stopwatch or timer



1 Fill two bowls with cold water and ice.



2 Put one hand in a zip-lock bag.



3 Put your other hand in a rubber glove and blow it up like a balloon. This is the blubber!



4 Put one hand (in the bag) in one bowl. Put the other hand (in the glove) in the other bowl.



5 Keep your hands in the water for 1 minute. Which hand feels colder?

Sort the Animals by Their Climate



2. How does blubber keep animals warm?

Blubber is a thick layer of fat that traps heat.

- A blubber-glove test shows how fat insulates.

4. Where in the world are hot and cold habitats found?

Hot deserts and polar regions sit in different places.

- The equator is hottest; the poles are coldest.

5. How are animals adapted to match their habitat?

An adaptation helps an animal survive where it lives.

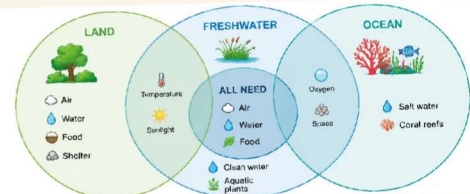
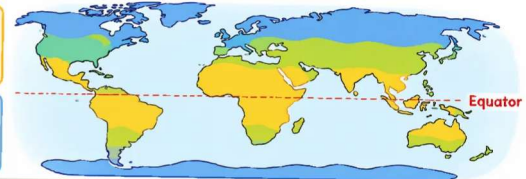
- A cold-adapted animal would struggle in the heat.

6. How do hot, cold and local habitats compare?

Comparing habitats shows what living things need to survive.

- All habitats give food, water, shelter and space.

Hot and Cold Climates



7. TAPS: How do we sort living things by habitat?

We follow the steps of identify & classify.

- Choose a rule, sort, **record**, then explain.



Mammals have fur or hair.



Birds have feathers and lay eggs.



Reptiles have dry scaly skin.



Amphibians live on land and in water.



Fish live in water and have gills.

VOCABULARY

habitat adaptation blubber insulation surface area
desert polar equator survive sort classify
evidence conclusion

SKILLS I'LL USE

- Compare habitats
- Sort & classify
- Plan a fair test
- Use a world map
- Record & explain reasoning