

TIMSS 2019 - Restricted Use Items – Biology

Benchmark 2

Reasoning

Dixon read a fact sheet about crocodiles.

Crocodile Facts

1. Crocodiles have a lifespan of up to 75 years.
2. Crocodiles today look like ancient crocodiles found in fossils.
3. Crocodiles have an angle of vision of 290° as shown in the diagram.



B. How can a crocodile's angle of vision help it to survive in its environment?

Give one reason.

Benchmark 3

Reasoning

In some large cities, owners of large buildings and houses have installed gardens on the roofs. Having more gardens helps reduce the amount of carbon dioxide in the air.

How does increasing the number of gardens help reduce the amount of carbon dioxide in the air?

Benchmark 4

Applying

Here is a list of animals.

ant cat dolphin earthworm fish frog jellyfish

A. Classify the animals into two groups based on whether or not the animal is a mammal. List the animals in each group in the table.

Mammal	Not a mammal

Knowing

List two substances plants obtain from their environment and use as raw materials for photosynthesis.

1.

2.

Applying

Plant cells and animal cells have some similarities and some differences.

A. List two ways that plant cells and animals cells are **similar**.

1.

2.

B. List two ways that plant cells and animal cells are **different**.

1.

2.