

WELCOME TO THE ONLINE CLASS

SESSION NO.: 2

CLASS: 5

SUBJECT: SCIENCE

CHAPTER NUMBER: 8

CHAPTER NAME: ANIMALS EVERYWHERE

SUB TOPIC: ORGANS OF BREATHING

CHANGING YOUR TOMORROW

LEARNING OBJECTIVE

To enable the learner to:

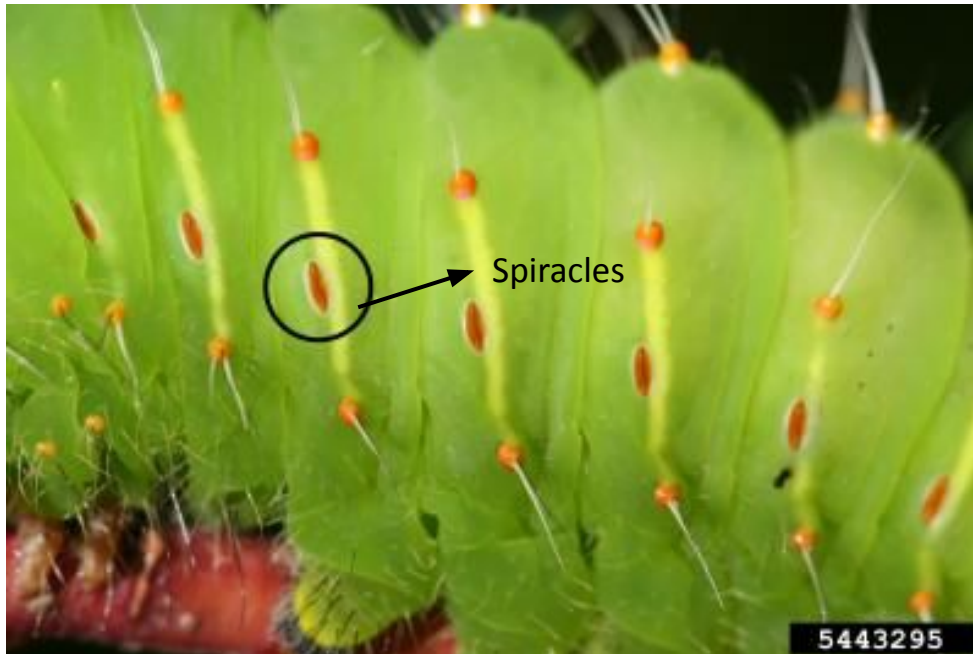
- Study the different ways in which animals breathe.

RECAPITULATION

- Define habitat.
- Why do animals breathe?
- From where do the animals get their supply of oxygen?
- How do amoeba breathe?

ANIMALS THAT BREATHE THROUGH AIR HOLES

- Insects breathe through air holes on their bodies which are called as spiracles.



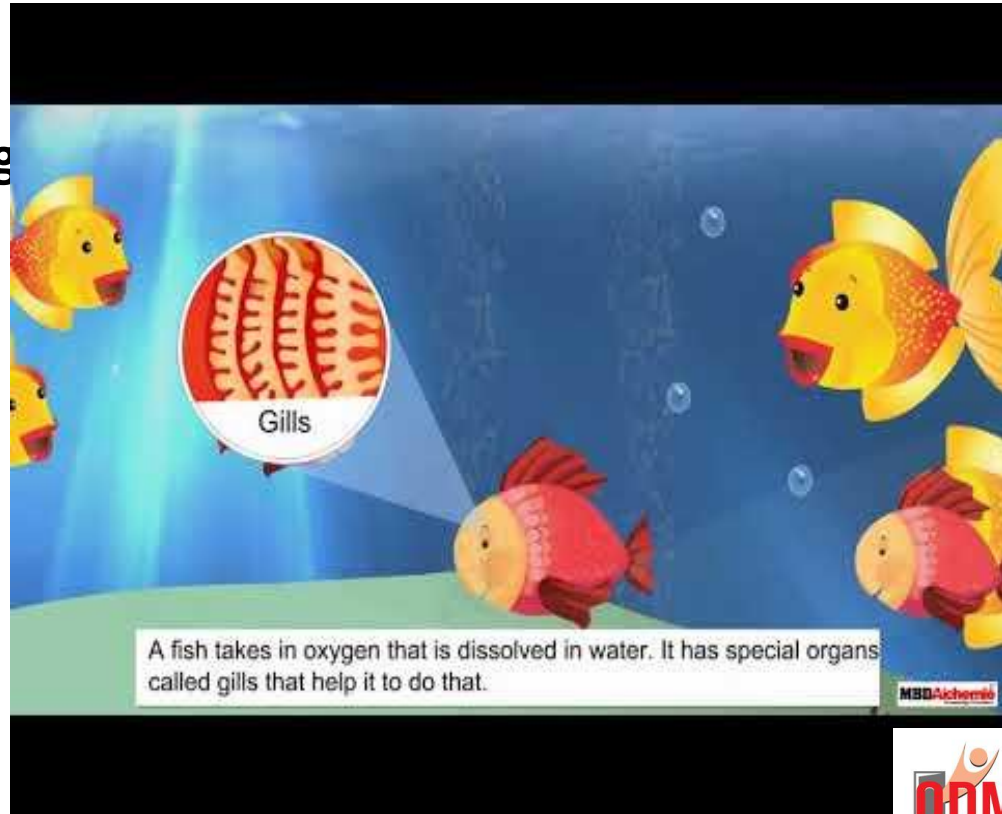
ANIMALS THAT BREATHE THROUGH SPIRACLES

- The blood of insects is not red because they do not contain the oxygen carriers called haemoglobin.
- The spiracles lead to air tubes which form a fine network that reaches every tissue of the body.
- Air enters the body through this network.
- The body tissues absorb oxygen and give out carbon dioxide which is expelled from the body.



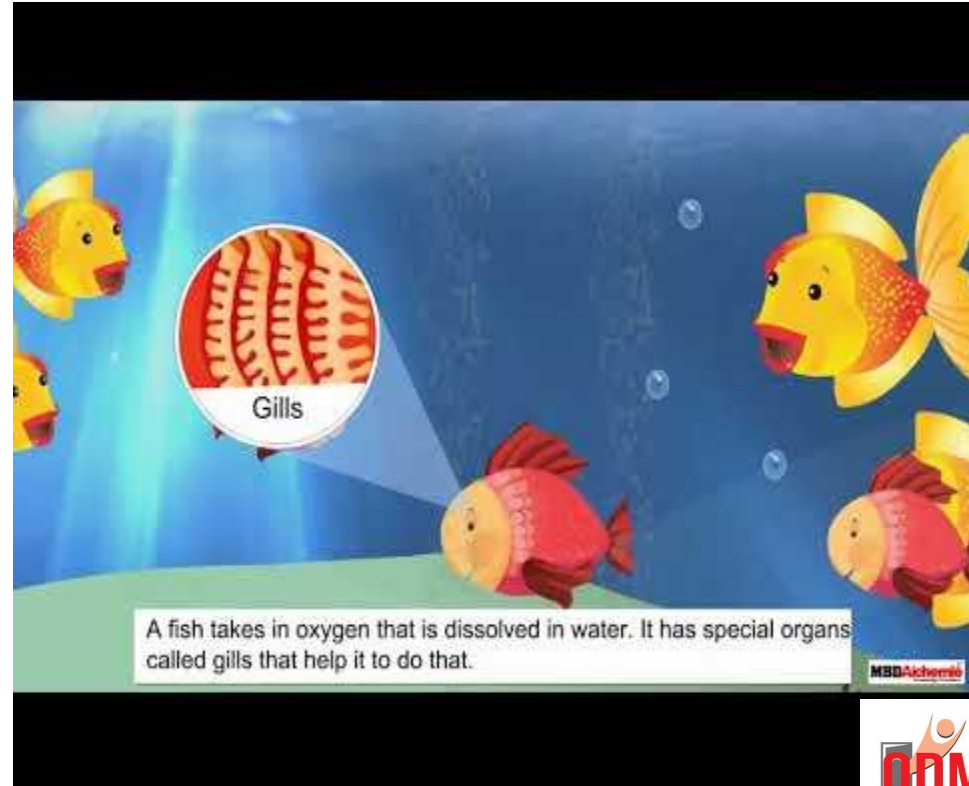
ANIMALS THAT BREATHE THROUGH GILLS

- Fish, prawns, crabs, oyster and tadpoles breathe through its gills.
- Gills contain blood vessels.
- When water flows over gills an exchange of gases takes place.



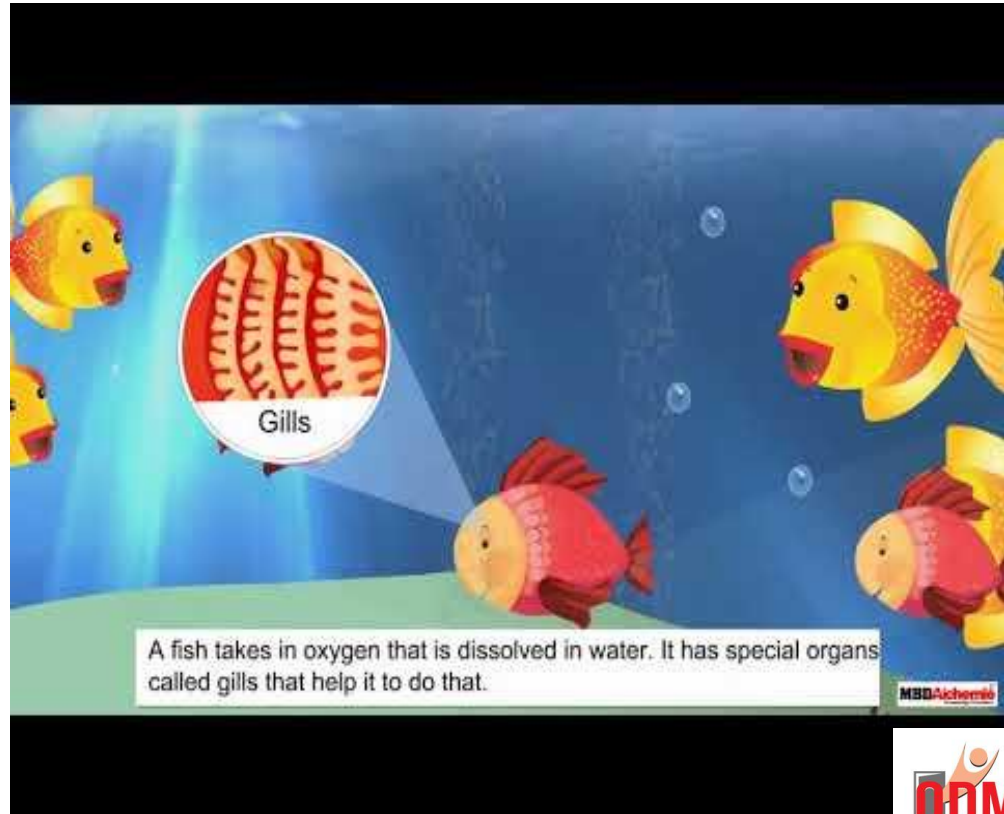
ANIMALS THAT BREATHE THROUGH LUNGS AND MOIST SKIN

- Frog is an amphibian.
- A tadpole breathes through its gills.
- An adult frog breathes through its lungs on land and through its moist skin in water.



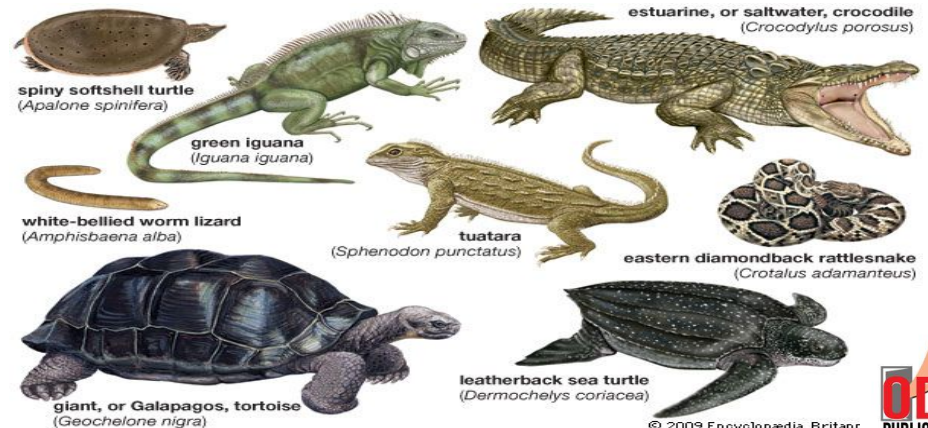
ANIMALS THAT BREATHE THROUGH LUNGS

- Humans are mammals.
- Let's see how breathing takes place in humans.



ANIMALS THAT BREATHE THROUGH LUNGS

- Birds, reptiles and mammals breathe with the help of lungs.
- Whales and dolphins are also mammals.
- They also breathe through their lungs.



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SUMMARY

- **Insects breathe through spiracles.**
- **Fish, prawns, crabs, oysters and tadpoles breathe through their gills.**
- **Frog is an amphibian which have lungs to breathe on land and moist skin to breathe in water.**
- **Humans, dolphins, whales, reptiles and birds have lungs which help them in exchange of gases.**

READY FOR A
QUIZ ?

1. Why the blood of insects is not red in colour?

Ans: The blood of insects does not contain haemoglobin that is why it is not red in colour.

2. Name the breathing organ of oyster.

Ans: Gills

3. How do frogs breathe in water?

Ans:Frogs breathe through their moist skin in water.

4. Which organ in the human body help in the exchange of gases?

Ans:Lungs

HOMework

Do the oral Q and A of page no. 74 in your notebook.

LEARNING OUTCOME

The learner will be able to:

- **Study the different ways in which animals breathe.**

THANKING YOU
ODM EDUCATIONAL GROUP