

## Class 10 Reading

Read this text and answer the questions at the end.

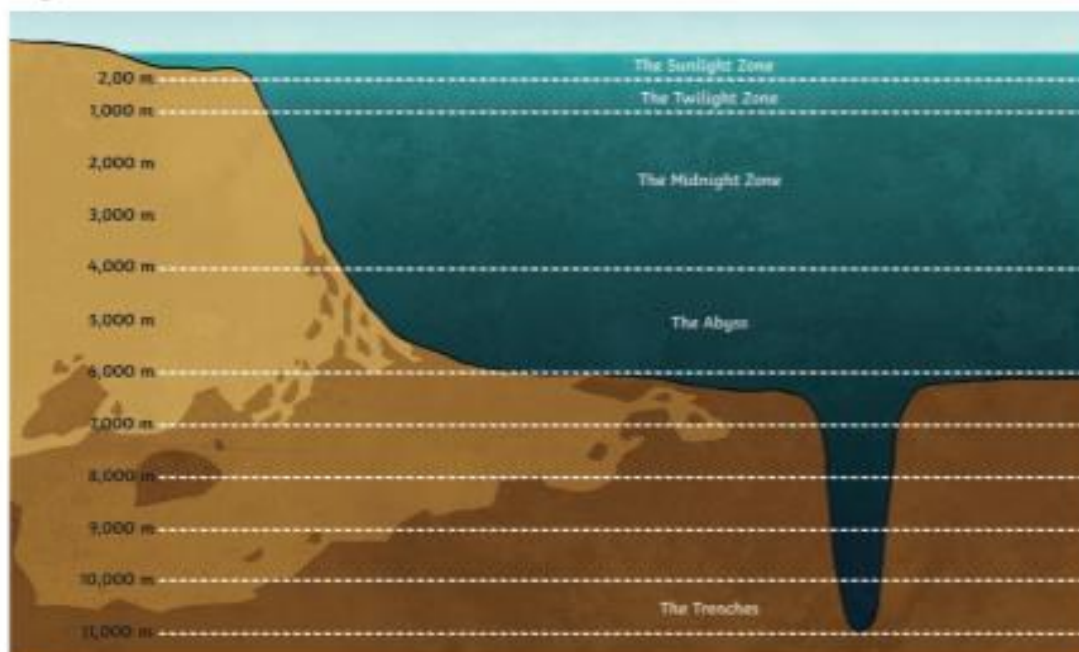
# Layers of the Ocean

Oceans cover two-thirds of our Earth. There are five main oceans which all flow into each other: the Arctic Ocean, the Atlantic Ocean, the Indian Ocean, the Pacific Ocean and the Southern or Antarctic Ocean.



### What Are the Layers of the Ocean?

Oceans are made of five layers or depths. Each layer has different characteristics, such as the temperature and the amount of light. They have unique creatures living within them.



### The Sunlight Zone – up to 200m below the surface of the ocean

There is plenty of sunlight and heat in this zone although both decrease as you go deeper. There are many different living things within this layer, including:



seaweed



dolphins



fish



coral reefs

Humans enjoy this warm layer for activities such as swimming and fishing.

### The Twilight Zone – up to 1,000m below the surface of the ocean

Only faint sunrays reach this deeper layer. No plants grow within this layer. It is home to sea animals which often have large eyes, including:

- the sea cucumber;
- the swordfish;
- the wolf eel;
- the octopus.

Humans can dive to this layer wearing protective suits.



### The Midnight Zone – up to 4,000m below the surface of the ocean

The Midnight Zone is pitch-black because sunlight cannot reach this layer. Some light can be seen from creatures that make their own light, such as:

- anglerfish;
- viperfish;
- jellyfish.

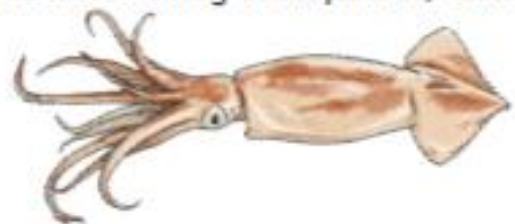
Some creatures, such as the sperm whale, dive to these depths to hunt for food.



### Abyss – up to 6,000m below the surface of the ocean

The sunlight cannot reach this layer at all so it is pitch-black and near freezing. Very few creatures live here but those that do are mainly transparent, blind invertebrates, such as:

- lanternfish;
- amphipod;
- squid



### The Trenches – up to 11,000m below the surface of the ocean

The Trenches are narrow, underwater valleys of the ocean floor which have high pressure and near-freezing temperatures. There is no natural light in this zone but different creatures can be found, such as sea stars.

#### Did You Know...?

The deepest part of the ocean ever to be explored by humans is the Mariana Trench. It is almost 11,000m deep! Specialist scientific equipment had to be used.

## Questions

When answering the questions, remember to underline key words and read around them. Read the sentences the words are in and the sentences before and after if you need to. Think carefully about what they questions are asking you to do. Where there is a choice of answers, check all possible answers before making a decision.

### **Monday**

Read the text and underline any words which you do not understand. Find out the meanings of those words. If you find any too difficult, you can email me.

### **Tuesday**

1. What are the names of the five main oceans?
2. How many layers are oceans made of?
3. How much of the Earth do oceans cover?
  - a) one-third
  - b) two-thirds
  - c) three-quarters
  - d) half

### **Wednesday**

4. Match each layer of the ocean to its depth below the surface.

a) Sunlight Zone	I. Up to 11,000m
b) Midnight Zone	II. Up to 4,000m
c) The Trenches	III. Up to 200m
5. In the Sunlight Zone, what do humans enjoy doing? **Choose two answers.**
  - a) Diving
  - b) Fishing
  - c) Swimming
  - d) Warming up
6. Which if these is **not** a creature you might find in the Abyss. **Choose one answer.**
  - a) Sperm whale
  - b) Sea stars
  - c) Amphipod
  - d) Squid

## Thursday

7. Fill in the missing words in this sentence:

The Trenches are narrow, underwater \_\_\_\_\_ of the ocean floor which have high \_\_\_\_\_ and near \_\_\_\_\_ temperatures.

8. Give **two** examples of creatures found in the Midnight Zone.

9. Which layer would you most like to visit? Give **two** reasons.

## Friday

Read a text of your choice on Epic! (details below) and work through the quiz at the end.



### Class Sign In Instructions

#### Laptop or Chromebook

Have your students open their web browser and

1. Go to **www.getepic.com/students**

2. Sign in with your class code **pqr4175**

3. Select their name and they're in!

#### iOS/Android

Have your students open the Epic! app and

1. Click on **"Have an account? Sign In"** then click on **"Students & Educators"**

2. Sign in with your class code **pqr4175**

3. Select their name and they're in!