

Blue Abyss - Year 4 - Summer 1

Interesting Books



Oceans and Seas

Just over two thirds of the Earth's surface is covered with water. Most of this water is found in oceans. There are five oceans called the **Atlantic**, **Pacific**, **Indian**, **Arctic** and **Southern Oceans**. Each ocean has its own **climate**, depending on its location in the world. Seas are smaller than oceans and can be surrounded by land.

Bioluminescence

Some marine animals have **chemicals** in their **cells** that make light or **bacteria** that live on them and produce light. This is called **bioluminescence**. Bioluminescence can be used as defence, **camouflage**, to attract prey or to see in the dark. The most common colours of bioluminescence are blue, green and red.



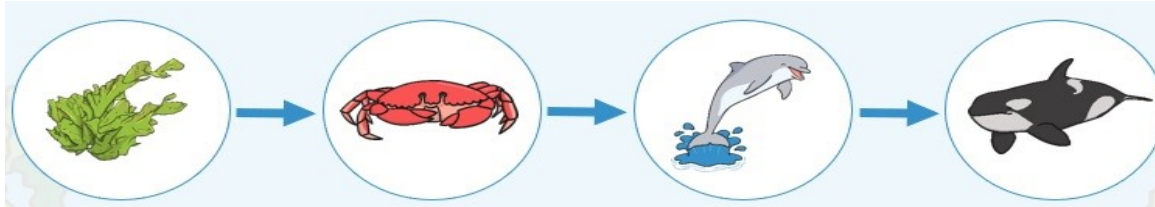
Jellyfish displaying bioluminescence.

Subject Specific Vocabulary

adapt	A change in an animal or plant that helps it survive in its environment.
bioluminescence	The producing and emission of light from a living organism.
camouflage	The way some animals are coloured or shaped to blend in with their natural surroundings.
climate	The weather conditions in a place over time.
conservation	The protection of an animal or area from damage.
coral	Marine invertebrates that live in large colonies and produce a hard exoskeleton.
freediving	The sport of diving underwater without breathing equipment.
habitat	The natural environment where a plant or animal normally lives.
oceanography	The scientific study of the oceans and everything in them.
organism	An individual animal, plant or microorganism.
pressure	A force that is produced when something presses or pushes against something else.
species	A group of animals or plants that share the same characteristics and can breed together.
submarine	A ship that can travel underwater.

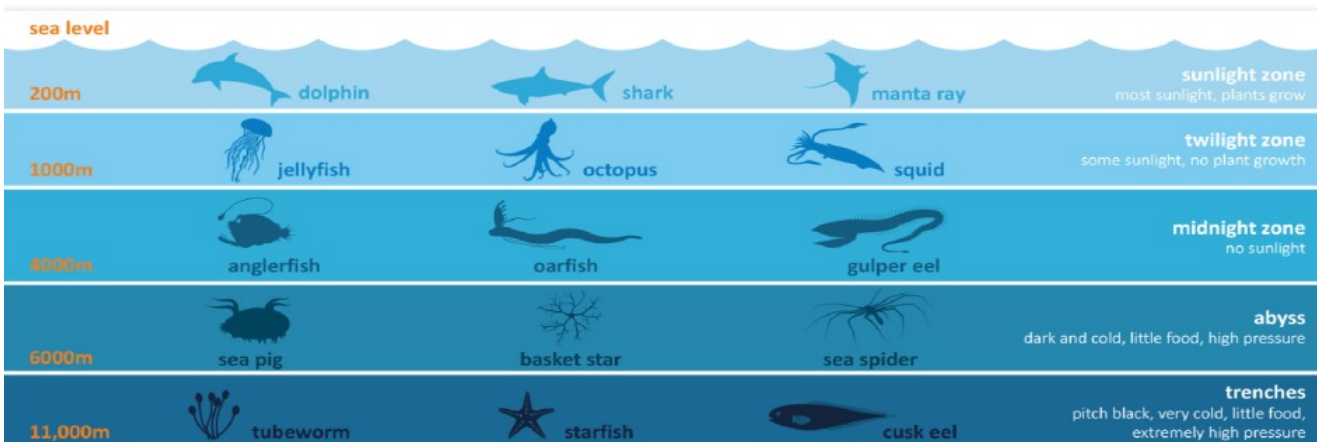
Food Chains

All living things need **energy** to survive. Food chains show where living things get their energy and how all species living in an environment depend on each other. For example, if the **producer** in a food chain is in short supply, it will affect all the **consumers** in that food chain.



Ocean layers

The ocean has five different layers: the **sunlight zone**, the **twilight zone**, the **midnight zone**, the **abyss** and the **trenches**. As the depth increases, the temperature and the light levels fall, and the pressure rises making it a difficult place to live. Oceans are home to hundreds of marine species, each specially adapted to live at different depths.



Maths

- Decimals:** adding, subtracting and dividing tenths and hundredths; Comparing and partitioning decimals; Rounding to whole numbers; Halves and quarters as decimals.
- Money:** Writing money using decimals; Converting pounds to pence; Comparing, estimating and calculating with money; Problem solving.

English

We will be writing descriptive narratives, event recounts, and character descriptions.

Key texts: Flotsam, Tentacle boy, The secret of the Black Rock



Art

Artist Study: Uysei Nagashima fish art.

PE

Tennis and swimming

Geography

Layers of the Ocean
Seas and Oceans of the world.
Pollution of the Oceans

Science

Habitats
Classification keys
Adaptations
Food chains

French

Les Animaux
Phonics

Music

Learning songs for the
Middle Years performance

RE

Eid ul-Adha

Jigsaw (PSHE)

Relationships
Zones of regulation