

Teacher: Mr Hammond

Term: Spring 1 (A)

Class: Godrevy

Year group: 5 & 6



As writers we will learn about:

Fiction — based on the books, 'The Whales Song', 'Flotsam and film, 'The Lighthouse'

Creating atmosphere in our writing

Range of sentence structures and punctuation

Non-fictions—Persuasive writing against plastic pollution in the sea and then followed up with fishing

Connecting our writing together using connectives

Punctuation for parenthesis (when a word has been inserted into a sentence) including

brackets (), dashes - or commas

As mathematicians we will learn about:

- Fractions Decimals and Percentages
- ♦ Algebra
- ♦ Shape

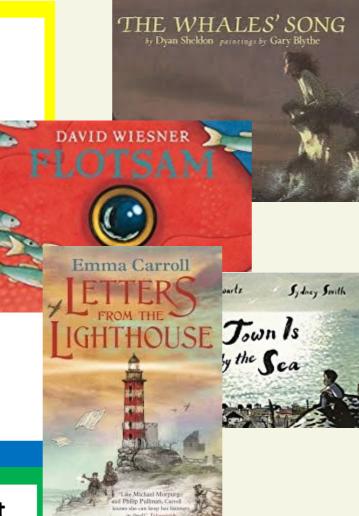
Oceans and Seas In our topic, we will learn about:

- oceans and seas around the UK and the world
- 2. tides and currents
- fishing in Cornwall and in impact on the economy
- 4. living by the sea

The Marine Habitat

As scientists we will learn about:

- 1. the marine habitat
- classification of sea creatures
- 3. adaptation
- 4. food-chains



Photography and Digital Art

In computing we will learn to:

- 1. organise albums and portfolios
- use camera settings and framing shots
- 3. explore light and shadows
- 4. explore different angles
- 5. edit photos to create different effects
- 6. take action shots

Homework

Monday: Times Table Test (99 club)

Wednesday (due in): Maths Homework booklet 1 page per week)

<u>Friday:</u> Spelling Test

Every Night: Reading atleast 10 minutes each night. Please log in

reading record.

Topic Grid: Optional homework linked to our topic of 'By the Sea'

Bridges

In DT, we will learn:

- 1. about arch and beam bridges
- 2. to build spaghetti truss bridges
- 3. to design and build our own bridges

In art, we will learn to:

- 1. draw shells in colour
- draw lighthouses in oil pastels
- weave seaside scenes

PSHE

Beach Clomb—Protecting our beaches

How important is reuse recycle and reduce?

In **Religious Studies** we will learn about Hinduism

Cornish Songs

In music we will learn to:

- 1. sing Cornish songs
- 2. compose our own songs
- 3. Make our own backing tracks in Garage band.

By the Sea

The surface of the planet is 71% water. It contains 5 oceans: The Arctic, Atlantic, Indian, Pacific and Southern Oceans.



- The different oceans are shown by the different shades of blue on the
- All of the oceans are actually connected together.
- The word 'ocean' comes from Greek, meaning 'great stream.'

Oceans by Size











Arctic = 14 million bm² hm² Southern = 20.3 million bm² indian = 70.5 million hm² Atlantic = 106.5 million bm² Pocific = 161.8 million bm²

Bridges

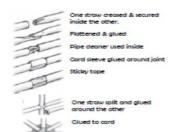
Designing Structures

Some example od man-made objects that use frame structures are houses, skyscrapers, bridges, scaffolding, tables and roller coast-

Prior Learning - a wide base an make a structure more secure Materials—When considering the most appropriate materials, we need to consider properties such as weight, toughness, malleability, strength and presentation),

Triangulation—Triangulation can help to make structures stronger. Triangulation is important when bracing. When force is applied to one point on the triangle, the pressure is shared amongst the other two point, which provide a secure wide base.

When using straw, rolled paper, a number of adhesives can be used - e.g. sellotape, different types of glue. Creating a frame requires using secure joints. These can be made using these methods.



Compression - A squashing force caused when parts of a structure are pushed together

Tension - A stretching force caused by two parts of structure being pulled apart



Truss bridge — A bridge which is built from a series of triangular beams



Arch bridge - A bridge which is built with a curve



Beam bridge - A bridge which is built with horizontal beams and vertical pilars



Suspension bridge - A bridge which is supported by vertical cables which run between pillars that are connected into either end of

The Five Oceans



- The Pacific Ocean is the largest ocean in the world. It covers nearly one-third (30%) of the Earth's surface. It separates Australia and Asia from North and South America.
- The name Pacific Ocean means the 'peaceful sea' in Portuguese

-Some of the main features in the Pacific Ocean include the Mariana Trench and the Hawaiian Islands. Atlantic Ocean Indian Ocean



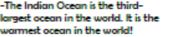
 The Atlantic Ocean is the second largest ocean in the world. It covers

about 20% of the earth's surface.

-It separates North and South America from Europe and Africa. It contains the Gulf Stream. Southern Ocean

-The Southern Ocean is the second smallest ocean. It is in the southernmos part of the world - around Antarctica.

-As it is so far south, much of the Southern Ocean is normally covered in ice (like the Arctic Ocean).



It lies south of India and separates Australia from Africa. It contains Madagascar and Sri Lanko

Arctic Ocean

The Arctic Ocean is the smallest and shallowest of the world's oceans. It is in the northernmost part of the world.

-For much of the year, the Arctic Ocean is covered by ice. It has lots of fresh water, from melting ice.

Red Sea

-The Red Sea is an inlet of the Indian Ocean, which

Seas

Seas are smaller than oceans, and are usually located where land and ocean meet. Sometimes, seas are a small section of an ocean. Below are some of the world's seas:

Mediterranean Sea

The Mediterranean Sea is connected to the Atlantic Ocean through the strait of Gibraltar, which is only 9 miles wide.

Caribbean Sea

The Mediterranean Sea separates southern Europe from northern Africa.

The Caribbean Sea is bounded by

Mexico and Central America.

klands

North Pole



Asia (the Middle East).

-The Red Sea is the world's northernmost tropical sea, with lots of

separates eastern Africa from western

interesting marine life. Dead Sea

The Caribbean Sea is a far-western section of the -The Dead Sea is called a sea, but is actually a Atlantic Ocean, which surrounds the Caribbean hypersaline (very salty) lake.

It is so salty that animals and plants cannot live in it (dead!), and you can easily float on it.



Where?

In the middle of

the Arctic Ocean.

Fishing

Fishing is an important global industry and the livelihoods of millions of people around the world depend upon this vital food resource. But today our oceans are under more pres-

than ever from human and environmental impacts. Overfishing is now our second largest sustainability challenge after climate change.

- Around 27% of the world's fish stocks are overexploited or depleted.
- 200 million jobs depend on the fishing industry worldwide.
- About a billion people depend on fish as their sole or main source of animal protein.



Food Chains

All living things in an ecosystem depend on each oth-

Food chains are a flow of energy that show who eats what (e.g. plants absorb energy from sunlight and animals their energy from eating plants or herbivores). They overlap and interlink to produce complex food webs. If one animal's source of food disappears, perhaps from a natural cause such as drought or disease, many other animals in the chain are affected. Plants are at the bottom of the chain, and humans are usually at the top. Humans are often responsible for disrupting food webs and damaging fragile ecosys-

Types of Fishing

A commercial fishing operation can vary in size from a single fisherman in a rowing boat using small hand-cast nets, right up to factory ships equipped with the latest technology to track, catch and process fish at sea. Commercial fishing, where fish are caught for profit, accounts for most of the seafood that is consumed each year with a large volume being caught in the developing world.

The Mariana Trench is the deepest part of the Ocean.

Mariana Trench		Its very deepest point, the Challenger Deep, is 10,971 metres deep! Even though it is very deep, a few people have visited it in submarines!	Where? Pacific Ocean, near the island of Cuam.
Hawaiian Islands	-	The Hawaiian Islands are a series of eight islands in the Pacific Ocean. Even though they are a long way from the mainland, the islands are a state of the USA. They contain several large volcanoes.	Where? 1500km across the Pacific Ocean.
Gulf Stream		The Gulf Stream is a huge, warm, ocean current that moves from the Gulf of Mexico to North America and Europe. It helps to keep these places from getting too cold in the winter time.	Where? Attentic Ocean, from central America northern to Europe.
Tides		Tides are the rise and fall of the levels of the ocean. They are caused by the pull of gravity from the Moon. Tides cycle as the Moon moves around the Earth. Therefore the oceans are always rising and falling.	Where? All over the world, in all oceans!

The North Pole is actually a frozen part of the Arctic

Ocean — there is no land beneath the ice! Because the

ice keeps shifting on the ocean beneath, people keep

having to move the flag that marks the Pole!

Interesting Features