Coral

Think

- What is this?
- What colours can you see?
- Where in the world might you see this?
- What do you think it feels like?

Respond

Who or what could come out of the coral and what might happen next?



Reimagine

Draw a creature that could live inside the coral.

Discuss

Where do oceans start and stop?



Solve

In every square metre of reef there are approximately 6 crabs. If the reef is 243m², estimate the number of crabs.

There are approximately 14 fish per m². Estimate how many on the reef.

There are approximately 36 coral per m². Estimate how many on the reef.

Discover

Fact: Corals are alive! They are ancient animals related to jellyfish and anemones.

Question: What can you find out about corals? Where is the Great Barrier Reef and what is it?

Ship

Think

- Is this real? Why/why not?
- · Where do you think it is?
- · When do you think it is?
- Who might be on the boat? Why?
- What might they be doing?
- Where do you think they are travelling to?



Reimagine

Zoom out from what you can see



and draw the bigger picture.

Discuss

dialogue you might have

would you be feeling? Role play the in this weather with a friend, how Imagine you were on the ship

Respond

glamorous than they really are? Have pirates been romanticised made to seem more exciting and

do the sails weigh? How much does the weigh half as much as the hull. What weigh 7935kg in total. The sails hull weigh? The hull and the sails of this ship

Discover

the Earth. Ocean seabed are closer to the centre of world's oceans, some parts of the Arctic depth of 10 971m. Despite the Mariana Philippines, has been measured at a in the Pacific Ocean, east of the Fact: Part of the Mariana Trench Trench being the deepest part of the

the Earth? not the closest point to the centre of Question: Why is the Mariana Trench



Diver

Think

- Where is this person?
- What equipment has he got?
- Is he alone?
- Is this his job?
- What is this person trying to do?
- Would you like to do this? Why?
- Is he safe?



Is diving safe?

Discuss

Respond

Write a report of what is seen and filmed by this diver.



Reimagine

Think about what they can see. Draw what the diver is recording.



cylinder. He has been underwater for The diver has a 15 litre oxygen he have? How many more minutes of oxygen does 45 minutes and used 60% of his tank.

Discover

deepest scuba dive is 332 metres. Fact: The world record for the

no oxygen)? Who holds the record? the deepest free dive (when the diver has Question: What is the world record for

Lionfish

Think

- What is it?
- Where is this?
- Is it male or female?
- Is it alone?
- What is it doing here?
- Is it safe?



Discuss

Should people catch fish? Do fish only belong in the sea?



one be saying? If fish could talk, what would this



this fish. Design a different pattern for

it eat? food in a day, how much plankton will to 3g of seaweed. If the fish eats 45g of seaweed in the ratio of 2g of plankton This fish eats plankton and

Discover

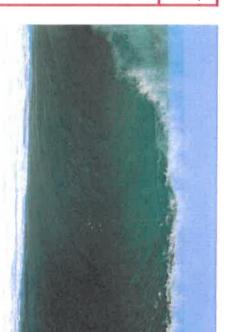
sharks, rays, and chimeras and about almost 27 000 are bony fish, with 970 almost 28 000 known species, of which all vertebrate species. There are account for more than half of Fact: The various fish groups 108 hagfish and lampreys.

the smallest fish in the world? is the biggest fish in the world? What is Question: What sort of fish is this? What

Wave

Think

- Where might this be?
- Is it near to where we are now?
- What is the weather like?
- What caused the wave?
- How can we tell the size of the wave?
- How might it feel to be in the sea when this wave breaks?



Solve

The height of this wave is 28.6m. What is the height in cm? What is the height in mm?

The next wave to break reached a height of 1940cm. What height was this as a percentage of the first wave to one decimal place?

Respond

Lots of poems have been written about waves and the ocean. Write a poem that conveys the movement of the waves?



Draw your own wave. How are you going to capture the action?

Reimagine

Discuss

Is the ocean alive? Why do we need to respect the ocean?

Discover

Fact: The highest wave ever recorded was during a tsunami in 1958 in Alaska - it was over 34m high.

Question: Can you find something that is 34m high to get a sense of the scale? Perhaps a building or a number of large objects or animals stacked on top of each other?