



This term we are going to be looking at the deep blue sea and some of the amazing creatures that live there! More than 70% of the surface of the Earth is covered by oceans and yet we still know relatively little about its inhabitants.

During the second half of the club, the children like to join worlds on the router provided to work in teams on a long build project. This build may span several weeks so it is important that the children get the same tablet each week. Although I have suggested some long build ideas for each week, feel free to jiggle things around or even come up with your own.

The main thing is that the quick builds are done as described on the correct week as this forms the basis of the inter school competition where your school can earn points for the national leaderboard.

The Quick Builds

The first half of the club is usually taken up with the quick build. The Fabretta videos can be used directly from Youtube each week or downloaded from dropbox if that is easier. Fabretta will cover the basic learning objectives each week along with the rules for the club and a timed quick build for the children to work along with.

Usually the teacher will choose the best from each table and get the children to show their creations at the front. The rest of the children can then vote on who they want to win. You should then take a photo of this with your phone and **UPLOAD** it to our inter-school competition page each week. If for any reason you struggle to upoad your quickbuild you can email it to competition@kidswithbricks.com. Parents and children will then vote for their favourites online.



Team Build Competition

Don't forget to let the children know that you will be sending in some pics of their team builds (long build projects) at the end of the half term and that there will be prizes for the best schools.

Week 1 - Puffer Fish

Pufferfish may vary in size and in appearance, but there is one thing they all share, which is what gives them their name – the ability to puff up. You see, because pufferfish are brightly coloured and move slowly, they are more likely to get eaten by larger fish. To prevent this fate, pufferfish have come up with an amazing strategy. When they are threatened, they can take in so much air inside their stomachs that they bloat and turn into large, perfect balls. This makes them look harder to eat.



Did you know...

Almost all species of **puffer fish** contain toxin (called tetrodotoxin) that can be 1200 times stronger than cyanide. One **puffer fish** contains enough toxin to kill 30 adult men. Toxin is not located in all parts of the **puffer fish**, and certain cultures prepare **puffer fish** (meal called fugu in Japan) as a delicacy.

This weeks quick build is a Puffer Fish!

Team builds (long build)

There's lots of potential for longer builds fun this term. See the end of this scheme for a few ideas including building an under water base!



Week 2 - Submarine

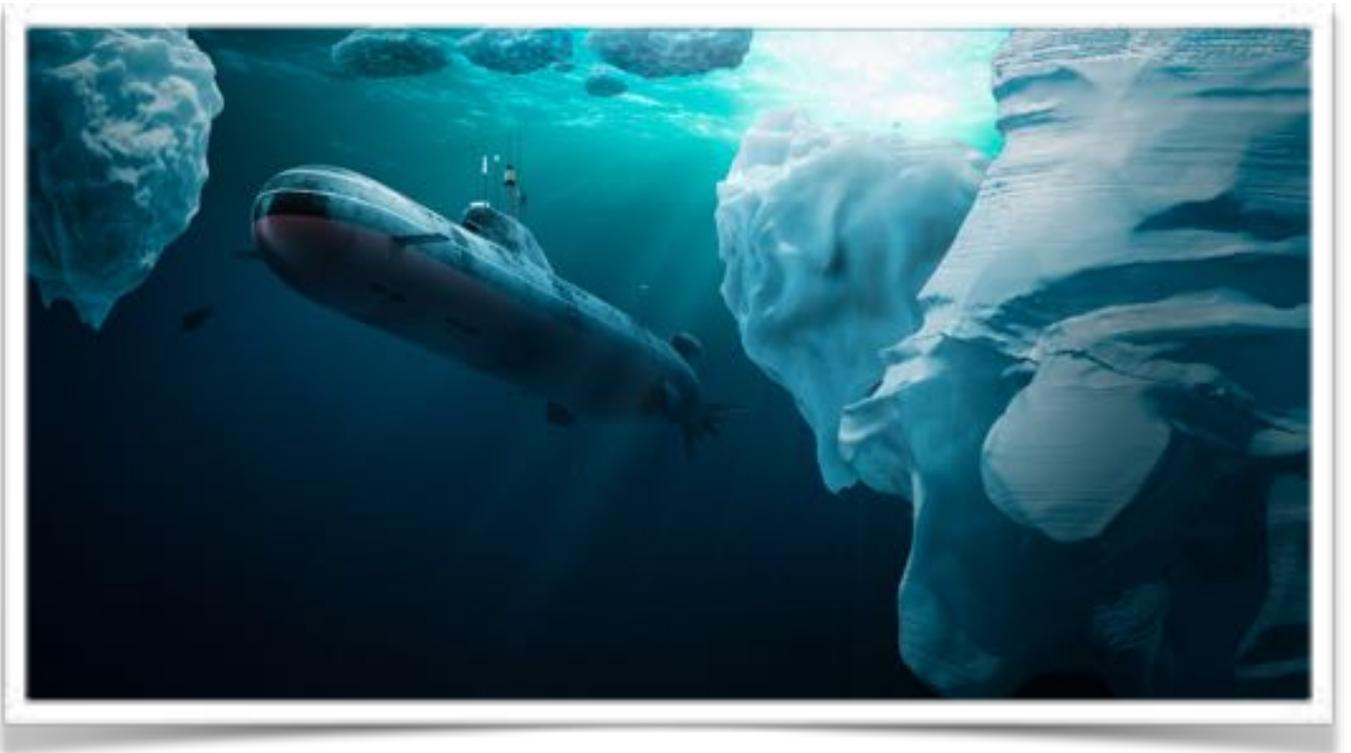
You may have seen a submarine on television or in the movies. This large, powerful underwater vessel is a cool way to explore below the sea. Oddly enough, the first working submarine was actually a leather-covered row boat. An inventor by the name of, Cornelis Drebbel constructed this odd underwater vessel in 1620. It managed to reach depths of 4.5 meters (15 feet).

Did you know... Trieste is a Swiss-designed, Italian-built deep-**diving** research bathyscaphe, which with its crew of two reached a record maximum depth of about 10,911 metres (35,797 ft), in the **deepest** known part of the Earth's oceans, the Challenger Deep, in the Mariana Trench near Guam in the Pacific.

This weeks quick build is a Submarine!

Team builds (long build)

There's lots of potential for longer builds fun this term. See the end of this scheme for a few ideas including the Lost City of Atlantis!



Week 3 - Turtle

Turtles are reptiles with hard shells that protect them from predators. They are among the oldest and most primitive groups of reptiles, having evolved millions of years ago. Turtles live all over the world in almost every type of climate. With so many different types of turtle, there is no average size. The largest sea turtle species is the leatherback turtle. It weighs 600 to 1,500 lbs. (272 to 680 kilograms) and is about 4.5 to 5.25 feet (139 to 160 centimeters) long.



Did you know... The oldest known sea turtle fossil is at least 120 million years old, making sea turtles some of the oldest creatures on the planet. That means they shared the planet with dinosaurs which became extinct around 65 million years ago.

This weeks quick build is a turtle!

Team builds (long build)

There's lots of potential for longer builds fun this term. See the end of this scheme for a few ideas including building an under water base!



Week 4 - Octopus

There are around 300 species of **octopus**, usually located in tropical and temperate ocean waters. **Octopuses** have two eyes in a globe-shaped head (mantle) off which protrude eight long limbs called tentacles that have two rows of sucker senses.

Did you know...

The **octopus** is a mollusk and an invertebrate, which means it has no bones in its body.

This weeks quick build is an Octopus!

Team builds (long build)

There's lots of potential for longer builds fun this term. See the end of this scheme for a few ideas including building an under water base..perhaps for studying octopuses!



Week 5 - Great White Shark

The **great white shark** (*Carcharodon carcharias*), also known as the great white, white pointer, white shark, or white death, is a species of large mackerel shark which can be found in the coastal surface waters of all the major oceans. The **great white shark** is notable for its size, with larger female individuals growing to 6.1 m in length.

Did you know... They have a streamlined shape and powerful tails that propel them through the water at over **60km per hour!**

This weeks quick build is a Great White Shark!

Team builds (long build)

There's lots of potential for longer builds and fun this term. See the end of this scheme for a few ideas.!



Week 6 - Sea Horse



Seahorses are tiny fishes that are named for the shape of their head, which looks like the head of a tiny horse. There are at least 25 species of **seahorses**. You'll find them in the world's tropical and temperate coastal waters, swimming upright among seaweed and other plants.

Did you know...

Did you know, when it comes to love, seahorses are one of the few marine creatures that mate for life. They're also one of the few species in which the males give birth!

This weeks quick build is a Sea Horse!

Team builds (long build)

There's lots of potential for longer builds and fun this term. See the end of this scheme for a few ideas.

LONGER BUILDS

1. Lost City of Atlantis

The mystery of the lost city of Atlantis still captures the imagination of millions. Was it real or just myth?! Atlantis was first described by the Greek philosopher Plato more than 2,000 years ago. While many believe the story is a myth created by Plato to illustrate his theories about politics, others insist it is based on a real historical disaster.

One of the most plausible theories is that Plato was describing the Minoan civilisation on Crete and the neighbouring island of Santorini which was devastated by a massive volcanic eruption around 1600BC. Atlantis was recently featured in the blockbuster movie The Justice League. It is also quite common for Atlantis to be shown as a very high tech (more space age) structure rather than the traditional 'Roman style' idea shown below.



2. Under Water Base or Lab!

There is always something fascinating about underwater bases! Perhaps since the early James Bond movies, where the super villain would rise from beneath the waves in his evil ocean going hideout! A little bit like a space station, the technology that makes it happen just captures the imagination!

In real life of course there aren't any super villains lurking under the sea (hopefully)...but we do have some very real under water scientific stations and labs. What sort of scientific experiments would your children set up in their underwater lab?