



SIR THOMAS BOTELER

CHURCH OF ENGLAND HIGH SCHOOL

THROUGH GOD, WE CARE

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Diocese of Liverpool



Diocese of Chester

Science Enrichment – Marine Biology Course

Dear Parent/Carer

I am writing to inform you that your child has expressed an interest in an exciting new enrichment course being offered by Sir Thomas Boteler Church of England High School.

The course is purely for enrichment and aims to bring the world beneath our oceans to our students. On completion each student will receive a certificate of attendance which will be a wonderful and powerful addition to any CV for college/university entrance. Only students with 95% attendance will be eligible to receive the certificate.

The course is being delivered by Mr Caine with over 15 years' experience in this field of study and author of 3 books on this topic. The course will start on Tuesday 20th June and run for 15 weeks, every Tuesday from 3.10 to 4.00pm (resuming after the summer holidays).

The course structure is as follows: -

Coral reefs

Reefs and formation

The three reef types, barrier, fringing and atolls, their distribution and formation.

Reef architecture how the physical and biological factors shape the reefs we see today.

The corals and coral biology

Global distribution of coral species

The biology of soft corals

The biology of hard corals

Reef ecology

How new reefs are colonised – coral succession.

The battlefield that is the reef

Other animals that shape the reef

The basis of life in the oceans

The oceans

Phytoplankton

Zooplankton

The fish

Jawless fishes

Cartilaginous fishes (sharks)

Bony fishes

The soft bodied animals

Jellyfish,

Hydroids

Anemones

The Rocky shore

Zonation – physical and biological pressures

The algae's

The animals



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Marine toxins and venoms

Marine toxins – shellfish toxins, Deadly seaweed of Hana,
Marine venoms – fish and sea snakes
Cone shells

Marine mammals

Cetaceans (whales, dolphins, and porpoises)
Pinnipeds (seals, sea lions, and walruses)
Sirenians (manatees and dugongs)

Animals with spiny skins

Urchins
Starfish
Brittle stars
Sea cucumbers

Hydrothermal vents and the deep sea

The discovery
The biology
Deep sea environment
Deep sea biology

Animals with exoskeletons

Crabs
Lobsters
Shrimps
Barnacles

Shellfish

Snails
Bi-valves
Sea slugs
Squid, octopus, nautilus and cuttlefish

The Polar Seas

The environment
Animal adaptations
Fish and invertebrates
Mammals

Working in the field of Marine Biology

Different areas of study
How to get into university
Tips on how to get a job
Case study of working in Indonesia

To allow us to gain an understanding of numbers please can the attached strip be returned to Mr Caine by Monday 19th June.

Yours faithfully

Mr Caine
Teacher of Science

Extracurricular Course Marine Biology

I would like my child _____ to attend the afterschool course on marine biology.

I understand that each session will finish around 4.00pm and we will arrange safe travel home.

I understand the award of completion certificate is for good attendance 13 out of 15 sessions.

Signed: _____ (Parent/Carer) Date: _____