



ST BENEDICTS CATHOLIC HIGH SCHOOL

Welcome

**TO SCIENCE AT ST BENEDICTS
CATHOLIC HIGH SCHOOL**

SCIENCE

What Topics will you cover?

In year 7 you will have a mixture of biology, chemistry and physics lessons all covering the 10 big ideas in science! These are:

Physics:

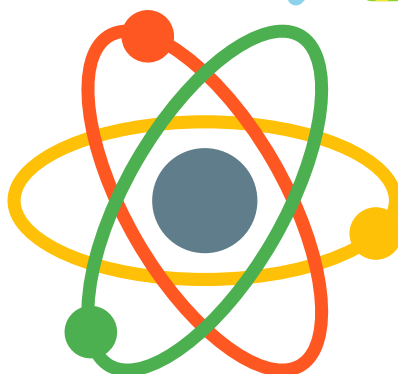
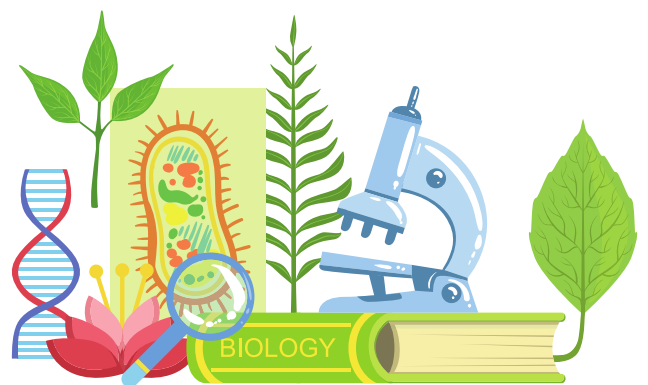
1. Forces-You will learn all about how balancing forces can affect how fast cars like Lewis Hamiltons Mercedes go to the effect of gravity on objects.
2. Electromagnets-You will learn how circuits work and why when you plug into too many appliances like hair straighteners and your playstation will melt the fuse!
3. Energy- You will learn how can we help save our planet with the way we generate our energy?
4. Waves- You will learn how you hear to why blue objects are blue and how we see rainbows.

Chemistry:

5. Matter- You will learn all about what things are made up of, how you can smell someone cooking in a different room and how to get pure water if stranded on a desert island!
6. Reactions- You will learn all about acids and alkalis including making your own cabbage indicator to seeing how metals react with different things-will many go bang?!
7. Earth- You will learn about the different types of rock and the circle of life for one-we may even let you look after a pet rock!

Biology:

8. Organisation- You will dive into the world of the human body looking at how we are built to move as well as going into the microscopic world of cells!
9. Ecosystems- You will learn all about our perfect planet and the balances nature creates. Could this inspire you to be the next Sir David Attenborough.
10. Genes-You will learn all about puberty and why we are different but perfect the way you are.



SCIENCE

Are you up for a Challenge?

To help you get a feel for science here is a choice of activities to try depending on what you have access to:

Task 1: Forces-Space the final frontier!

In space there are satellites which orbit the Earth to help us with our everyday lives. Use the information sheets and fact finder to find out about satellites. Then use the templates to design your own satellites. We would love to see your designs so do us send us in a photo to enrichment@st-benedicts.org! There is some lovely mindfulness colouring for space and satellites to do as well.

Task 2: Ecosystems. Predators-I am going to eat you!!

Watch the clip on you tube by clicking on this link - <https://www.youtube.com/watch?v=1UHtF1fnJMs>

For each of the 4 scenes, write down the predator. What special features (adaptations) does it have to make it better at catching its prey? Once you have done this can you design the ultimate predator? Send us the pictures of your predator labelling all its special features (adaptations) and give it a name!

Summer Challenge

Science is all around you and is important in our everyday life.

It's such a fun and interactive subject we hope you will love as much as we do! To start of your journey into science we as a department are challenging you to complete as many of the 30day science challenges included in your pack! Bring us any photos to show this in September!

Enjoy the summer!

*See you in September.
The Science Team*

