



Torpoint Community College



b



Subject Projects



2020



Year 6 Transition- Subject Projects

Hello Year 6, Parents and Carers,

We wanted to take the time to put together some fun, creative subject projects that you can complete at home. This booklet is filled with projects for all of the subjects we teach at TCC. Below is some further information about them...

- These projects have been compiled by our Curriculum Leaders and Departments for each subject to help provide you with an insight into the curriculum at TCC
- All of these projects are completely **optional**, you do not have to complete them if you do not wish, but we wanted to provide you with the option anyway!
- All projects have been designed without a time frame, so you can take as long as you would like to complete them
- Some of the tasks are also open ended so you can create them in any way you choose
- In September, we would like you to bring the projects with you so that you can be rewarded for your hard work!
- You can choose to complete one or two, a few or all of the tasks... the choice is yours! 😊

We hope that you have fun looking through this booklet and you find a project or projects you would like to spend some time completing.

Parents & Carers- If you have any questions, please do not hesitate to email transition@torpoint.cornwall.sch.uk

Miss Lindup

Geography at TCC



We thought it would be fun to set you a mini, introductory project to Geography at TCC.

Across the three years of KS3 (Year 7, 8 and 9), we learn about all seven continents! In Year 7 we start by learning about Europe (with a focus on the UK and Russia) and we then learn about Antarctica.

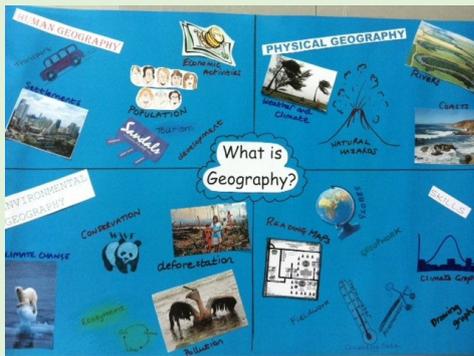
I thought it would be good to spend some time in the Summer looking at some of our mini topics. You can choose to complete the tasks from one of the colour boxes or you could complete more than one, it is up to you!



What is Geography?

Make a poster with text, diagrams, photographs to explain what 'Geography' is. You can use some of the questions below to prompt you if you would like.

- What topics are there in Geography?
- What subjects will we study?
- What would you like to learn about in Geography?



The A-Z of Geography

Create a A-Z of Geography!

Think of some different things you could include on a poster all about the A-Z of Geography. You could include places, landmarks, key words in human Geography, key words in Physical Geography, famous Geographers.... You can create anything you like!

Famous Geographers

Create a one-page profile on a famous Geographer

Rivers of the UK

Activity 1

Make a list of the 10 largest rivers in the UK

Activity 2

Plot them on a map of the UK (Draw them on with a blue pencil)

Activity 3

Label the blue pencil lines with the name of the river

Activity 4

Research one of the largest rivers and make a poster... see if you can find 10 facts (You should also include some drawings/ diagrams/ photographs)

Country Factfile

Choose a country... anywhere in the world and create a one-page factfile!

You should include-

- Drawings, diagrams, photographs & a map (to show where it is located!)
- Up to 10 facts about the country (it's location, population, food, landmarks, flag)



MFL at TCC

MFL Year 6 project

Learning a language isn't all about speaking, grammar and writing. You also get to learn about the culture of a different country. An important part of a country's culture is the food and drink. For example, in England we love to have a roast dinner on a Sunday, eat fish and chips and pasties!

During the summer the MFL department at TCC would like you to get creative in the kitchen (with the help of a sensible adult at home of course)!

If you'd like to take part in the project the details are below:

- Have a think/search on the internet for a traditional Spanish/French dish and a recipe that you think you can follow.
- Have a go at making the famous dish and make sure that you take pictures of the steps that you take.
- Once you have created your masterpiece ask whoever is in your household to try it and give their opinion.
- Once all the tasting is done write up the recipe that you used adding in the pictures that you took. (if you can't print the pictures maybe you could draw them).
- In September we would like to see your pictures and recipes and put them on display in the MFL corridor so make sure that your write up is really colourful and bright.
- Remember to choose a dish depending on what language you have chosen to study at TCC-French or Spanish. But the recipe write up needs to be in English.



Bonne chance!
¡Buena suerte!

Maths at TCC
Year 6 TCC Maths Transition Project

There are thousands of wonderful people who have had an amazing impact on our lives by furthering the world with advances in maths. We would love you to choose one of these people to research so that you can design a poster or write up explaining who they were, what they did, their contributions to maths, and any other interesting information you discovered about them. Here are some suggestions but feel free to choose somebody different if you wish.

Marjorie Lee Browne
Maurits Escher
Euclid
Leonhard Euler
Fermat
Fibonacci
Galileo Galilei
Katherine Johnson
Isaac Newton
Florence Nightingale
Pythagoras
Alan Turing

History at TCC

We are really excited to see you when you start Year 7 and can't wait to teach you History!

Before you start, we would like you to create a little project for us and bring it with you to hand in to your History teacher after the Summer Break.

For this project, we would like you to research and present something about a Significant Person or Significant Event in History. We would like to know; who was involved/who they were; when it happened/when they were around; what happened/changed/what they did; where it happened and why it/they are so significant.

Significant means important. When someone is significant, it means they are 'famous'; normally because they changed something, or did something which had an impact. A significant event is the same kind of thing; it's a thing that happened that people remember; either because it changed history, or because it had a huge impact.

You can present your project about your Significant Person or Event in any way you want. You could create a booklet, a collage, a comic book, or even a PowerPoint/Prezi. You can write it by hand, or create it on a computer; or a combination of the two – the choice is yours!

If you're a bit stuck for ideas, there are some significant events & people below, to get you thinking 😊



Significant People Ideas:

Eleanor of Aquitaine;
Isambard Kingdom
Brunel; Malala
Yousafzai

Significant Events Ideas:

The First Crusade; The
Great Exhibition; The
Moon Landing



Religious Studies at TCC

We are really looking forward to seeing you when you start in Year 7!

Before we begin to study beliefs & religions together, we would really like you to create a mini project to hand in to your teachers when you see us in September.

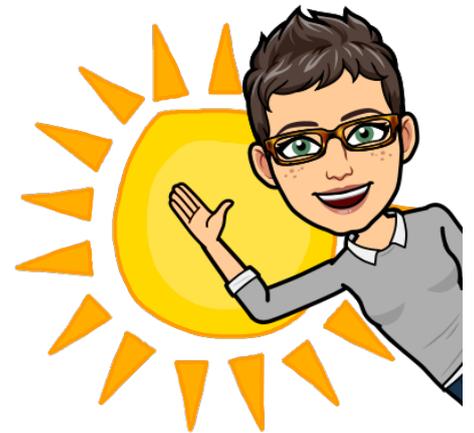
This mini project is called 'Five Facts About Five Beliefs'.

We would like you to find out five things about five beliefs/religions. This can be about any five beliefs/religions.

We would like you to find out;

- What the belief/religion is called
- What the foundations of the belief/religion are (what it is based on)
- Special practices/books/ceremonies/clothing of the belief/religion
- Special places of worship/gatherings/communities
- Anything else you think is particularly fascinating about the belief/religion

You can present your work in whatever format you choose; perhaps you would like to create a leaflet/mini book, or a large poster, or perhaps even a PowerPoint presentation? You can create your work by hand with illustrations or by using digital software with text and images, or a combination of the two; the choice is really up to you!



Agnosticism;
Atheism;
Buddhism;
Christianity;
Confucianism;
Druidry;
Gnosticism;
Hinduism; Islam;
Judaism; Kernewek;
Paganism; Shinto;
Sikhism;
Zoroastrianism



Have a wonderful Summer!

Music at TCC

Year 6 Music, Motivation and Wellbeing Project

It is widely known that Music plays a big part in our lives. Research suggests that music can stimulate the body's natural feel good chemicals (e.g. endorphins, oxytocin). Music can help energise our mood and provide an outlet for us to take control of our feelings. Music can even help us work through problems in our lives. For example music can help us to:

- Manage **stress**  and relieve **anxiety** 
- Express **feelings**  and improve **communication** 
- Enhance **memory**  and **motivate** us to study 
- Promote general feeling of **WELLNESS**  and promote **physical fitness** 

YOUR TASK: Create a playlist of your favourite Music to listen to under the following headings:

- Music to energise and motivate me!
- Music to make me happy!
- Music to help me concentrate and study.
- Music to relax to.

I look forward to seeing your playlists and listening to the Music you have chosen. Thank you so

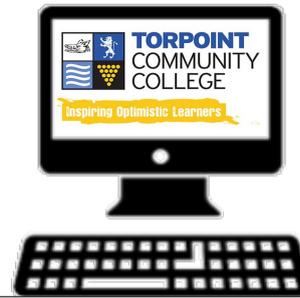
much  and see you soon! Ms Hamilton - Curriculum Leader of learning for Music at TCC.

Computing at TCC

“Being able to turn a complex problem into one we can easily understand is a skill that is extremely useful.”

Computers can be used to help us solve problems. However, before a problem can be tackled, the problem itself and the ways in which it could be solved need to be understood. Computational thinking allows us to do this .

Computational thinking skills are good as they will benefit you in many subject areas. Being able to tackle complex problems and develop an effective solution is a key life skill! It is also a good skill for use to develop ahead of our coding journey at TCC. Understanding a problem is key to developing an effective algorithm to solve the problem. This algorithm will help us when it comes to building coded solutions.



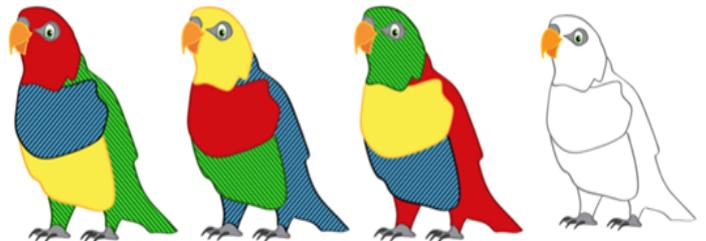
The Rainbow Parrot

Question:

Based on the first three chicks, what colour patterns will the fourth have?

Each young parrot has four colours: red, blue, green and yellow.

Each colour in a parrot must be in a different part of the body to the other parrot



Email Update

Question: Which are the best **two** actions to take:

You have received an email to your school email address:

Subject: Update Your Information!

Message: Please send your ID number and password, or your account will be closed.

1. Reply with your ID number and password.
2. Reply with a made up ID number and password.
3. Delete the e-mail without replying.
4. Send your ID number and password to some of your friends.
5. Tell a school teacher or your parents about this email

1-5

2-4

2-5

3-5

Rubbish

Question: How many pieces of litter will Boris collect

The picture shows the map of a park divided into rectangles. The number in each rectangle represents the number of pieces of litter left there by visitors.

The park keepers have two robots, Anton and Boris, who collect all the litter they find in every rectangle they enter.

The robots were given the following instructions:

Anton:

↑ = upwards ↑ = upwards ← = left

Borris:

↑ = upwards ↑ = upwards ← = left

1	3	1
0	2	6
0	1	3
1		
	Anton	Boris

Flowers

Question: Which of the following bunches will Clara be happy with



Clara wants a bunch of six flowers. She tells the florist:
There must be two of each of the colours yellow, white and blue
Flowers of the same type must not have the same colour
There should be no more than two of each type of flower.

Lifts

Question: Arrange the beavers in to the lifts so that as many beavers as possible can take the lifts at once.

A lot of beavers need to use two lifts.

Each lift can only take a maximum of 30kg.



Science at TCC

Hello New Year 7! Welcome to the SCIENCE DEPARTMENT. We are really looking forward to meeting you in September and getting started with some Science. Science lessons are great - full of discovery and science practicals. As well as Bunsen burners you will use and explore the glassware, chemicals, microscopes, magnets, electrical circuits and some really weird looking stuff like the Van de Graaf generator (google it or ask you parents!)

It is going to be really exciting! There will be explosions (oh yes!), chemicals that change colour and you will see inside yourself on a microscopic level....amongst other things.

As an introduction to Science at Torpoint Community College perhaps you would like to have a go at these simple science experiments you can do at home....

PHYSICS - Make a Spectroscope

Use it to split white light into the colours of the spectrum

You will need:

- One kitchen roll tube or two toilet roll tubes stuck together
- An old CD

The instructions can be found here:

<https://buggyandbuddy.com/homemade-spectroscope/>



CHEMISTRY - Make an Indicator Solution

Use it to find out which substances around the home are acid or alkali.

You will need:

- A grater or blender
- Red cabbage
- Hot water
- A saucepan
- A sieve
- Cups or small containers
- Different substances to test (for example; bicarbonate of soda and vinegar and water but you could try any other substance in the home as long as supervised and act with caution) Wearing latex gloves and goggles are good safety practices when using



The instructions can be found here:

<https://www.science-sparks.com/make-a-red-cabbage-indicator/>



BIOLOGY - Dissection

Can you find the eggs inside a flower? Which parts of the flower are to attract bees? What is the difference between pollination and fertilisation? -

Which parts of the flower do these two processes?

You will need:

- A flower (you can dissect any flower but bigger ones work best for example tulips or lillies)
- A craft knife (or just your fingers will work well enough)

The instructions can be found here (they are for a daffodil but will work for any flower):

<http://sloely.com/dissecting-daffodils-pollination/>

We would love to see what you get up to - take photos to show us in September. Have fun experimenting!

Miss Carr

PE at TCC



@ HOME OLYMPICS 2020

We hope you are staying safe and are looking forward to the summer, when things start to go to something nearer "normal".

To keep you occupied over the summer break, and to get you thinking about doing PE here at Torpoint Community College, we have come up with a sports related task.

Now this summer was supposed to be the when Tokyo in Japan hosted the 2020 summer Olympic and Para-lympic games. This will now take place next year in 2021

The Task:

Due to our Sports Day also being cancelled this year, we have had to be a bit imaginative to get our students active during our annual "Sports Week". However, we need some extra help from yourselves.....

What activities could we ask our students to do at home so they can compete against each other? Imagine that not all students have PE equipment at home so need to use household items instead.

Try to come up with 7 events that all students could do at home. Are they going to do them against a time limit? Are they judging their performance against how many they can do?

You can design new activities or adjust existing activities with household items replacing PE equipment. You could draw them on one side of A4 paper using your computer skills or by drawing themselves. You could even take pictures of you and your family doing the activities and make a collage with labels explaining what is happening in the various pictures.

Good luck and we look forward to seeing you soon

PE Department



WHAT DID THE GREEKS DO FOR US?

In English, we know how important it is to have the right foundation to build new knowledge on... and the best foundations take us back to Ancient Greece- where knowing their history can help us understand the impact on English- from our story telling, to our speech writing!

So, choose 1-3 tasks from the table that grab your interest- they are designed to build your knowledge and understanding of what the Greeks did and why they are so important...

You can present your work in whatever way makes you happy- we just want you to love the learning!

NO	THINGS THE GREEKS DID...	THINGS YOU CAN DO
1	 HISTORIANS	Who was Herodotus? Can you create a fact file or trump card on this historian?
2	 ALARM CLOCK	What was part of the first alarm clock- sand or pebbles? Can you draw a picture of the clock?
3	 OLYMPICS	Which events were part of the first Olympics? Find your own way to show off what you learn.
4	 MEDICINE	Who was the 'Father of Western Medicine'? create a fact file or trump card on this famous Grecian...
5	 MODERN PHILOSOPHY	Many of history's greatest philosophers lived during the times of ancient Greece- can you find the names and details of three of them?
6	 ZOOLOGY	What is zoology and who is considered the father of zoology? Find a creative way to show what you learn
7	 DEMOCRACY	What does the word democracy mean? How did the Greek invent democracy? What did democracy look like back then?
8	 GEOMETRY	Who is the Father of Geometry? And what did he invent? How could you
9	 JURY	What is a jury? How many people will in jury in ancient Greece? In a modern jury, are there more or less people?
10	 MATHS	What is the connection between Maths and Greece? How could you show your findings in a creative way?

Art and Design Technology at TCC

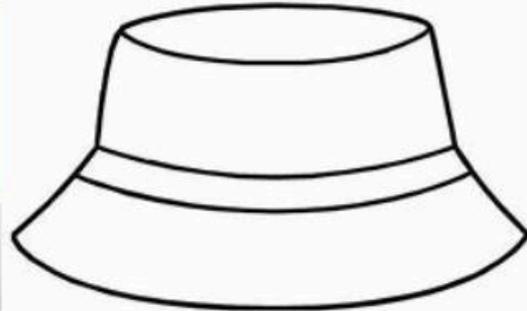
Inspiring Optimistic Learners

Art and Design Technology

During your time at Torpoint Community College you will complete lessons in art and design technology. In year 7, 8 and 9, you will rotate between lessons in Art, Food and Nutrition, Textiles and Product Design.

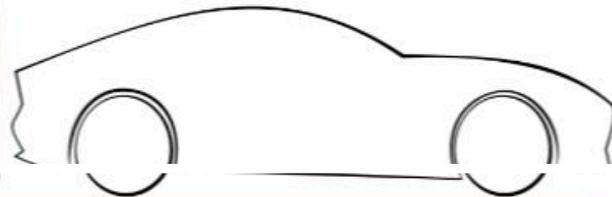
TEXTILES TASK

- Look at some fashion and sports brands such as hype, Fila, pink soda, vans.
- Design and colour your own bucket hat for the summer inspired by your research!



PRODUCT DESIGN TASK

- Look at some famous cars eg the DeLorean, Aston Martin DB9, Volkswagen beetle, the Batmobile and any others you can find.
- If you could design a car what would it look like? What special functions would it have? Draw out your car design or use the template and add notes to explain what special functions it could have?



FOOD AND NUTRITION TASK

- Have a look at the eatwellguide and the government's 8 healthy eating guidelines
- Draw your own eatwellguide and with pictures and words, fill in all that you have eaten in the last 24 hours. Put each food into the correct section.



ART TASK

- There are so many ways that you can create a picture using a pencil in art.
- Have a look at all these images and look at how they have used the pencil; dots, curves, straight lines, long lines and many more.
- Find an object in your house, draw it for 15 minutes. Try to get as many ways of using your pencil in the drawing as possible.

