

# Enjoying subjects outside of school

## English

### *Ted Talks*

- Mac Barnett - why a good book is a secret door
- Lisa Bu - How books can open your mind

## French

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### *Websites / Ted Talks*

- TV5 apprendre
- Rfi pure radio
- France culture.fr
- Youtube - songs by French artists
- Duo lingo

## Maths

### *Projects*

- **GeoGebra** - GeoGebra is a simple but powerful programme which can be used by students to understand maths concepts, to help solve and to check solutions.

**GeoGebra** can be used for statistics, for probability, for geometry, for trigonometry, for algebra and for functions. It is free to download online.

- **Logic Puzzles** - Great for improving problem solving abilities. Try out some <https://logic-puzzles.org> .
- **TED Talks** - Maths talks to blow your mind!([www.ted.com/topics/maths](http://www.ted.com/topics/maths)

### **Visits**

- **Science Gallery TCD.** Details on current events available at: <https://dublin.sciencegallery.com/>
- **Chess Clubs** -Join your local chess club and learn to play or improve your chess. Details about venues near you and club times available on [www.libraries.dlrcoco.ie](http://www.libraries.dlrcoco.ie) Remember, there is also a chess club in Rockford Manor.
- **MAKESHOP** -4 South Leinster Street, D2.  
Created by Science Gallery at Trinity College Dublin, MAKESHOP is a collaborative space with the shared objective of promoting science, technology, engineering, arts and maths. They cater to all skill levels, welcoming makers aged 4 to 104.

### **Websites**

- **Nrich.maths.org**  
The NRICH project is run by Cambridge University and aims to enrich the mathematical experiences of all learners.
- **Mathsisfun.com**  
Maths explained in easy language, plus puzzles, games, quizzes, videos and worksheets.
- [www.bbc.com/learning/subjects/maths.shtml](http://www.bbc.com/learning/subjects/maths.shtml)  
Mathematics revision from numbers, shapes, fractions, probability and statistics to graphs, trigonometry, algebra and geometry.

## **Science**

### **Projects**

- **Make a straw flute** - science of sound and notes investigation. Details at: <http://www.instructables.com/id/straw-Flute/>
- **Make a potato battery** -electricity investigation. Details at: <http://science.lovetoknow.com/science-fair-projects/how-make-potato-battery> (Note: you don't need the multimeter on the materials list to carry out this investigation)

- Can plants live and grow when ‘watered’ with juice, soft drinks or milk instead of water? Details at: <https://www.education.com/science-fair/article/plants-nourished-juice-soda-milk/>

### **Websites**

- <https://www.kidsastronomy.com> An astronomy website packed with games, fun facts, and resources to help parents and students of all ages reach out and touch our universe.
- <https://www.sciencekids.co.nz>  
Enjoy fun science games for kids while learning more about science and technology. There’s a range of free online activities to try with something for everyone whether you’re interested in animals, plants, chemistry, biology, physics, space, magnets, electricity, forces, light, sounds, gases or other science related topics.
- <https://wonderville.org> Wonderville has a solid collection of interactive activities and games that students of all ages will enjoy. Activities are broken down into things you just can’t see, things in our world... and beyond, things created using science and how they work.

## **Art**

### **Projects / activities**

- Pick grass and natural material from the garden & arrange on a path/ table as a temporary landscape. Photograph.
- Build a temporary creature using recycle bin contents & kitchen utensils.
- Using your phone or a digital camera- take a picture of a hidden place in your house and try to guess the location when you share the images with your parent.
- Have a look in the ‘Dead Zoo’ (Natural History Museum) and find the funniest facial expression on one of the exhibits. <https://www.museum.ie/Natural-History/Visitor-Information/Things-to-See-Do>
- (Next door is the National Gallery <https://www.nationalgallery.ie/> - have a look in and pick your favourite painting. What’s it called? Who painted it? Google their name to see their other works!)

### **Websites**

- How to Carve Incredible Pumpkin Faces | Ray Villafane|Martha Stewart

- <https://www.youtube.com/watch?v=JAf-elvarJs>
- Why not have a go using a bar of soap?- (using teaspoon handle....needle...?)
- Painting a bouquet of flowers- <https://www.youtube.com/watch?v=emg6sSktofo>
- (Inspired? Why not have a go together?)
- Quentin Blake - Studio Visit | TateShots (The man who illustrated Roald Dahl's books)
- <https://www.youtube.com/watch?v=06rYXklhBtY>

## History

### *Projects*

- On youtube watch a Horrible Histories together!
- Find an old map on Google Images (or in your family photo album) of a nearby location- Now-with your phone, try take an image from the same viewpoint & see what has changed over the years!

### *Websites*

- Have a look at what Viking Dublin looked like and Medieval Dublin in this interactive map! <http://dublinia.ie/online-learning/secondary/>
- Have a look around 1916 Dublin while listening to actor Colin Farrell tell the story! Feel free to hop around! <https://dublinrising.withgoogle.com/welcome/>
- Have a look at the online Census. Who lived on your street before you? You can browse by name or location! Look out to see information about family size/jobs/religion. <http://www.census.nationalarchives.ie/search/>

## Home Economics

### *Projects*

- Cooking a nutritious meal for a family of 4
- Baking a birthday cake for a friend of family member for a celebration

- Plan healthy lunches for a week using the food pyramid recommendations

### Websites / Ted Talks

- Avonmore Website - compare different milks in terms of protein/ fat / carbohydrate / vitamins & minerals.
- You-tube: 'Sugar Crash'
- Visit the Mc Donalds website, choose a meal and work out the calories in the meal.

## German

### Projects

- Research traditional German Cuisine and try baking/cooking something! Look up key 'food items' vocabulary in the recipe, using online dictionaries such as *leo.de* or *linguee.de*. Use your 'Stop & Jot' to record new words!
- Keep a diary! Write entries *auf Deutsch* about you, your family, pets, hobbies, school, films you saw, etc. This will help you practice the topics being studied in class. You can design it, keep photographs in it, write a 'Word of the day' for each entry, or any fun facts you learn about German food/culture/history etc. It can be your personal German-learning log!

### Websites / Apps to visits

- duolingo.com
- Quizlet.com
- Deutschtrainer A1- App for Android & iPhone
- Kahoot.com
- Lern Deutsch- Access through Goethe Institut Website
- Goethe InstitutVokabeltrainer App

# Business

## Projects

- Create a 'My little booklet on Consumerism' - Sale of Goods & Supply of Services Act 1980, Consumer Protection 2007 and Consumer Agency.
- Research a successful local entrepreneur
- Read the business section from the Irish Independent. Pick an interesting article and discuss in class.
- Look at an electricity / gas/ phone bill and analyse the bill/ How many units were used and identify the cost of each unit.
- Watch a programme such as 'Buyer Beware' on RTE, write down 5 useful pieces of information for a consumer.

## Websites/ Ted Talks

- BBC Bitesize KS3 Level Business
- Khanacademy.org
- Quizlet.com
- Kahoot.it
- Smallbitztrends.com
- Dragons Den Youtube Clips
- For Consumer related information: [www.cpc.ie](http://www.cpc.ie) , [www.cer.ie](http://www.cer.ie) , [www.comreg.ie](http://www.comreg.ie), and [www.cai.ie](http://www.cai.ie) .

# Geography

## Projects

- <http://world-geography-games.com/world.html> - Interactive way for students to test their knowledge about the world around them. Can you name and locate all the continents and oceans? Students have 6 games to choose from.
- “Geography in the news”- A game for students to play at home. Students are asked to find interesting articles in the news and to try and relate the articles to geography. Students will realize that geography is not just confined to rocks and rivers! *Massive earthquake hits Bali...* This will help students connect geography to the everyday world we live in and help students realize that geography is not just confined to a text book.

## Websites / Talks

<https://www.youtube.com/watch?v=ztWHqUFJRTs> : Climate change, Joss Fong

<https://www.youtube.com/watch?v=EoYSToa2Yfw> : Is our climate heading towards a tipping point? - Victor J. Donnay

[https://www.youtube.com/watch?v=ZCKRjP\\_DMII](https://www.youtube.com/watch?v=ZCKRjP_DMII) : Can wildlife adapt to climate change? - Erin Eastwood

<https://www.youtube.com/watch?v=PddQvyiBfdc> : What happens when continents collide? - Juan D. Carrillo

## Interesting websites exploring the world of Geography

- Trek is a great site if you're travelling to another country, or if you just want to travel virtually and learn about other places and cultures. <http://teacher.scholastic.com/activities/globaltrek/>
- Kids Geo is a fun, online geography textbook written for kids.
  - <https://kidsgeo.com/>
- Geography for Kids offers facts, games, quizzes, experiments, videos, images and more.
  - <http://www.ducksters.com/geography/>
- National Geographic Kids is, of course, the go-to resource for all things geographic.
  - <https://kids.nationalgeographic.com/>