ISLINGTON

# Computing Project Planning

## 2022/23

In partnership with

LONDON GRID FOR LEARNING

Busy Things

Barefoot

Just2easy

Create • Share • Learn

ISLINGTON

# Contents

# Soft Skills

Key Skills:

- signing in and out
- typing and mouse skills

Useful resources:

https://www.typingclub.com/

http://www.softschools.com/dot_to_dot/games/

# Poles Apart

**Introduction to coding.**

The march of the penguins.

Aim: Children to use bee bots to code the march of penguins across Antarctica (use Blue Planet as a hook) – Cross Curricular – Looking at maps

1. Unplugged activity: Children to act it out first. Work in pairs, one giving instructions to the other. Make this as interactive as possible. Use the classroom floor as a resource. Use squares to help them visualize the distances and directions. This would work well in the hall or outside. **(vocabulary: left, right, forward, backward)**
2. **Children are given 'fake-bots' (cut-outs of bee bots or a picture/model or Penguin). Children given grid paper and ask to** map out penguin's journey by writing a sequence of instructions. Think about the start and the end of the journey. This could be illustrated with the sea or a huddle of penguins to show the destination.
3. Working with Bee-bots: children to start experimenting with bee-bots. Become familiar with the arrows.
    - Give them an open-ended task: e.g How many different ways can the penguins get to their food source?
    - Closed-ended task: children to replicate the work they did on paper using bee bots. (add Beebot Jackets)

**Link with Barefoot Bee bot Basics/Unit 1:**
https://www.barefootcomputing.org/resources/bee-bots-basics-activity

**Coding Task- Extension**

https://www.j2e.com/jit5#turtle – Upload an image as background

**LGFL Content: http://polar.lgfl.org.uk/** (aimed at KS2, can draw out key themes and ideas)

**Busy Things Content**:


**Scratch Jnr/J2Animate:** Arctic Exploration, polar bear talking about diet etc. in the Arctic (Use images and word bank to support)

# Flight

**Watch 360 video of bird in flight**
**https://www.youtube.com/watch?v=-_gnmeSLTJk – Kingfisher**
**https://www.youtube.com/watch?v=7E3XcO9DozY – Eagle**
**Use musical instruments to create a soundscape to go with the video.**

**Children use J2animate: https://www.j2e.com/jit5#animate** to create a story of flight (Children to practice, naming, saving and finding their work)

AR page 'First Flight' http://sig.lgfl.org.uk/sig-AW10.html

# Shakespeare

- **School Days**
- Use dress up (Islington Library Service) or Host Victorian Day. Children use Do Ink Green Screen to film and explain what they know about school days past and present.
- **LGFL:**
- **https://content.lgfl.org.uk/secure/shakespeare/**
- **Early Shakespeare:**
  **http://earlyshakespeare.lgfl.org.uk/RomeoAndJuliet-new/index.html**
- **Busy things:** Shakespeare

# Wonder Woman

- **Illustration using** https://paintz.app/

- Recreate poster for Superhero
    - Use **j2Write** https://www.j2e.com/jit5# to write about a Wonder Woman you have researched, save and post to blog
    - Record a podcast using Garage Band about someone you have researched. Upload to Sound cloud and share via Twitter and QR code posters around the school. Could also set up Listening stations.
    - **https://docs.google.com/document/d/1HMDfix5DLFVovKup5KOOVk1vcLiJR5yW9hKuifZ3gw8/edit?usp=sharing (Planning for j2e/Busy Things)**
    - Wic.lgfl.net (A focus on women in computing)
    - **Research – Ada Lovelace**

Hello Ruby, Create our own computers: http://www.helloruby.com/play

# Great Fire of London

**Great fire of London**

The **Great Fire of London game** to help introduce the topic:

http://www.fireoflondon.org.uk/game/

- Children use **iMovie** to record performance on Great Fire of London song or poem. (Upload and share on Seesaw) https://www.youtube.com/watch?v=zrA6lY4c9io

- Great fire of London: -Use Fake Bots designed as fire engines

    1) Children create London landmarks from around the world using cardboard and junk modelling and plot on the world map grid
    2) On Grid **Unplugged**: Children use Fake bots to get to each landmark
    3) Children use programming skills to program Bee bot to reach each amenity (use Bee bot costume template)
- Use **book creator** to write retell of the Great fire of London https://bookcreator.com/
- J2Animate to retell the story of the Great Fire of London

- **Great Fire of London: AR worksheet: http://sig.lgfl.org.uk/sig-AW8.html**

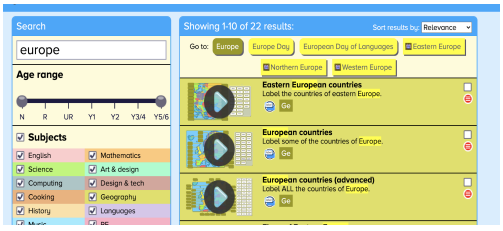
- **Kahoot** –Remake the sounds of sirens from around the globe then put into Kahoot

# UK & Europe (Compare & Contrast)

- **Busy Things - Local area (UK and Non Eu Countries) - Continents and Oceans**
- **Busy Things:** Europe (Map and Locational Knowledge)
- Children to use Do Ink Green Screen to share videos about weather

  https://apps.apple.com/gb/app/green-screen-by-do-ink/id730091131
- **LGFL - JIT** https://www.lgfl.net/learning-resources/summary-page/jit
  Children create J2Pictorgram about different weather patterns or tourism at landmarks around the globe.
  Children use the J2Chart to present their work

## Journey through Europe: Landmarks and Landscapes: Search Europe in Busy Things:




- **Scratch Jnr – Tinkering**
  **https://www.barefootcomputing.org/resources/send-scratch-tinkering-activity**
- Scratch Jnr animation. Children recreate Gulliver's Travel using Scratch Jnr
- Children practice using the movement and speech tools to get their characters to move across screen, chance background and talk about the location they are in

- **LGFL: Geo.LGFL.Net: http://geo.lgfl.org.uk/geo-pack.html**

# Stone Age to Iron Age

Prehistoric Britain: http://prehistoric.lgfl.org.uk/

Create a prehistoric timeline:
http://www.readwritethink.org/files/resources/interactives/timeline_2/

**Geography – Types of Settlement and Land Use**

- Google Sites: Children research and create their own Google Site about different types of Settlement around the globe.
- https://sites.google.com/new
- **Widgit symbols books:** https://www.lgfl.net/widgit/worksheets/history/default.aspx
- **Digging up the Past (AR)**

http://idig.lgfl.org.uk/index.php/idig-home/

Learn – Learn about archaeology

Practice – Using integrated app practice digging up the past

Excavate – Remove and inspect

Children to use Do Ink Green Screen to share videos about archaeology

https://apps.apple.com/gb/app/green-screen-by-do-ink/id730091131

# Rocks

**Computer Science:**

- Barefoot: Decomposition https://www.barefootcomputing.org/resources/decomposition-unplugged-activity-ks2
- **Scratch – Tinkering activity: https://www.barefootcomputing.org/resources/scratch-tinkering-activity**
- **Scratch – Fossil Formation: https://www.barefootcomputing.org/resources/fossil-formation-animation**

# Mexicans and the Mayans

**Augmented Reality** and activities http://maya.lgfl.org.uk/ Creating Mayan maps and Maya code.

**Creating Mayan symbols using Microbit**

Adapted from: https://www.youtube.com/watch?v=xpRI5jjQ31E

Use https://makecode.microbit.org/#editor and edit LED to create Mayan symbols

**Music from the Mexicans and Mayans**

- Children research music in Rainforests: Flutes etc. https://www.youtube.com/watch?v=z7K7yjdmE3U
- Create musical instruments from Junk and recycled material https://www.youtube.com/watch?v=JvPF6yZFfJE
- Children record using iPad/Garage band and upload to Sound cloud Links: https://soundcloud.com/

# Climate Change/ Sustainability

- **J25** Children to use JIT5 or J2e5 to publish a poster about Sustainability. This can then be added to school's online blog or printed and displayed around the school

https://www.j2e.com/

- Children to use Do Ink Green Screen to share videos about sustainability (Link with habitats)

https://apps.apple.com/gb/app/green-screen-by-do-ink/id730091131

- Use **book creator** to rewrite versions of the world with climate change

https://bookcreator.com/

- **Sunflower Challenge –** Russian Giant seeds

-Work with SKIP Garden

# The Roman Empire/Celts

Cross-curricular links: History and English

Children to research about the Romans using the LGfL resource (see link). This can be done in pairs.

Multiple outcomes:

- spider diagram which illustrates what they've learnt
- PowerPoint presentation
- Non-chronological report
- Diary entry from the perspective of a roman
- Poster advertising a job vacancy as a roman soldier (this can be done as an online project).

http://romans.lgfl.org.uk/default.html

Eruption of Pompeii Animation: https://www.youtube.com/watch?v=dY_3ggKg0Bc&t=216s

**Newspaper report:** The Roman Record and Escape from Pompeii

- **Write a battle report from a Roman soldier:**

**https://www.busythings.co.uk/lgfl-login/?activitytag=ws_timeline_british_lbl**

- **Labelling what Roman soldiers wear**

https://www.busythings.co.uk/lgfl-login/?activitytag=ws_roman_soldier_lbl

- **Understanding Roman Soldiers:**

https://www.busythings.co.uk/lgfl-login/?activitytag=project_romansoldiers

## Roman Rule: Romans.lgfl.net/ Widgit symbols books: https://www.lgfl.net/widgit/worksheets/history/

**Online Blogging**

Cross-curricular links: English and History

Publish one of their writing pieces using j2e5.

To access:

https://www.j2e.com/

- Write a battle report from a Roman soldier: https://www.busythings.co.uk/lgfl-login/?activitytag=ws_timeline_british_lbl
- Labelling what Roman soldiers wear https://www.busythings.co.uk/lgfl-login/?activitytag=ws_roman_soldier_lbl
- Understanding Roman Soldiers: https://www.busythings.co.uk/lgfl-login/?activitytag=project_romansoldiers

**Co Spaces Project: Roman City/Ancient Scene:** https://edu.cospaces.io/WTV-ZFF

**Roman Aqueduct Model:** https://cospaces.io/edu/building-blocks-lesson-plan.pdf

- **Roman Battles** – Romans vs Celts – Film fighting styles e.g. Testudo

**The Roman Empire:** Play a game with the class every day, they expand their empire (Like Risk)

Paid Version: https://www.commonsense.org/education/game/sid-meiers-civilization-vi

**Free Version: -Free Civ:** http://www.freeciv.org/

# Adverts

**-IMovie/Green Screen** – Children develop their own adverts for items – Present in dragons den style.

**News Shows -** https://breakyourownnews.com/ **News Shows** (Fake News/Current Affairs)

**-Busy Things –** Search in Design and technology, design a new toy

# Electricity

Children use **j2paint**: https://www.j2e.com/jit5#paint to create poster about animals, their habitats and diet

Busy Things: 


**Electricity –Making Cars (Circuits) –**
**https://www.makerspaces.com/make-a-battery-powered-diy-car/**

# Fashion

**Busy Things:** Tudor Fashion 


- Tudor Men's Fashion
- Tudor Women's Fashion
- Early Tudor Clothing
- Tudor Clothing Quiz

**Co Spaces**, Create virtual exhibition:
https://cospaces.io/edu/virtual-exhibition-lesson-plan.pdf

Example: https://edu.cospaces.io/RHK-AXP

**Fashion Show Dance Moves:**

Barefoot: https://www.barefootcomputing.org/resources/dance-move-algorithms

# VIkings

**Invaders: Vikings.lgfl.net/ Widgit symbols books:**
**https://www.lgfl.net/widgit/worksheets/history/**

LGfL resources: http://vikings.lgfl.org.uk/main.html

Lesson 1: Research Viking long boats and examples

Lesson 2: Plan to create Viking long boats

Lesson 3: Create Viking longboats and test them

**Story Telling**

Sigurd & the Dragon: http://sigurd.lgfl.org.uk/

**Revisiting Coding:**

Cross-curricular links: English and History

Create a journey inspired by the story of Sigurd and the Dragon

https://arcade.makecode.com/#editor

**imovie** – Create an advert for Iceland

See example: Discover Iceland: https://www.youtube.com/watch?v=pP5C6LzNs0M

**Viking Raid Animation** – Scratch;
https://www.barefootcomputing.org/resources/viking-raid-animation

**Minecraft:** Create a collaborative Viking Longboat:
https://www.youtube.com/watch?v=APvQuDU3OVg

**Invaders: Vikings.lgfl.net/ Widgit symbols books: https://www.lgfl.net/widgit/worksheets/history/**

**Trips: Hastings**

-Creating Viking shields – Workshop activity (Woodwork)

# Walls and Barricades

**Co Spaces:** Physics engine – https://cospaces.io/edu/physics.html

Physics Feature Demo: https://edu.cospaces.io/LRN-VMA

**Minecraft:** https://minecraft.makecode.com/tutorials/agent-build

Code your agent to create a wall – building challenges
https://education.minecraft.net/lessons/build-with-the-agent

# Earth & Space

- **Busy Things:** Earth and space
- LGfL: AR/VR Space: http://sa.lgfl.org.uk/ + Audiobooks

**LGFL: Geo.LGFL.Net:** http://geo.lgfl.org.uk/geo-pack.html

# WW2

Historical stories: Texts WarHorse by Michael Morpurgo/ Friend or Foe

**Search world war in Busy Things** 


**LGFL WW1 Augmented Reality: http://ww1.lgfl.org.uk/**

**WW2 Timeline:** Children to create a digital timeline.

http://www.readwritethink.org/parent-afterschool-resources/games-tools/timeline-a-30246.html

https://www.sutori.com/dashboard

**The Home Front: Widgit symbols books: https://www.lgfl.net/widgit/worksheets/history/**

**Rationing:** Have a rationing day/teacher go onto rations and children see how they get on

https://www.sutori.com/dashboard

**iMovie**: Gas Mask Tutorial

**Kahoot:** Get children to create a Kahoot about rationing facts/WW2 information: https://kahoot.com/

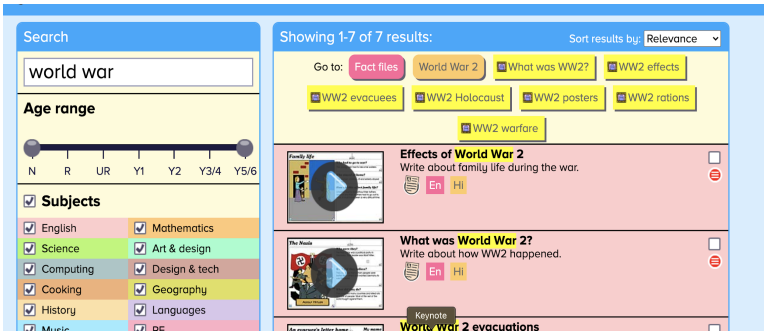
**Coding Cracking**

**The M Room resources: http://mroom.lgfl.org.uk/welcome.html - Bletchley Park**

Series of 6 lessons linked to Coding Cracking in WW2. Teachers to follow the sequence of lessons planned by barefoot computing.

https://www.barefootcomputing.org/resources/code-cracking

**Widgit symbols books: https://www.lgfl.net/widgit/worksheets/history/**
**Search world war in Busy Things**




# The Home Front

**LGFL WW1 Augmented Reality: http://ww1.lgfl.org.uk/**

**WW2 Timeline**

Children to create a digital timeline.

http://www.readwritethink.org/parent-afterschool-resources/games-tools/timeline-a-30246.html

https://www.sutori.com/dashboard

**Coding Cracking**

**The M Room resources: http://mroom.lgfl.org.uk/welcome.html - Bletchley Park**

Series of 6 lessons linked to Coding Cracking in WW2. Teachers to follow the sequence of lessons planned by barefoot computing.

https://www.barefootcomputing.org/resources/code-cracking

# The Victorians

**Film Making:** Using iMovie to create films – Victorian news

iMovie film progression:
https://drive.google.com/file/d/1K-ub8KNkks6My-QOQHdjkBXeW_nl3dz2/view?usp=sharing

Research, what was life like in the Victorian era?

**Widgit symbols books: https://www.lgfl.net/widgit/worksheets/history/**

**Busy Things Resources:** Victorians

What happens when you lie about your age? – Horrible Histories:
https://www.bbc.co.uk/cbbc/watch/p00nxznx

# Queen Victoria:

- LGfL: Queen-victoria.lgfl.net: https://www.lgfl.net/queen-victoria/default.aspx
- LGfL: Royalmews.lgfl.net: http://royalmews.lgfl.org.uk/

# Greece

**Revisiting Coding**

Cross-curricular links: English and History

Create a maze inspired by the myth of Theseus and the Minotaur

https://arcade.makecode.com/#editor

**Ancient Greek cities**

Cross-curricular links: History and Geography

Design an Ancient Greek city using Co Spaces.

Teachers to make an account and a class. You can create an assignment for your class.

https://cospaces.io/edu/

**Minecraft:** Building an ancient Greek city: In the style of:
https://www.youtube.com/watch?v=Ua3UD7dnVN8

**-Agent Build – Create a city: https://minecraft.makecode.com/tutorials/agent-build**

**Microbit:** Creating a chariot using a micro bit, chariot races
https://www.elecfreaks.com/blog/post/make-a-microbit-car.html

**Lego We Do**: Recreating Olympic sports: https://www.youtube.com/watch?v=3IrYe-DMuhg

**Co Spaces**: Using the physics engine to recreate ancient Greece battles/catapults and Olympics sports

**Widgit symbols books: https://www.lgfl.net/widgit/worksheets/history/**

**Trips**: British Museum/Pottery Workshop

# Extreme Earth

**Volcanoes and Earthquakes**

Recreating the sounds of Mountains, Volcanoes and Earthquakes

Chrome Music Lab – Investigate sound waves and patterns:
https://musiclab.chromeexperiments.com/

Garage Band – Creating soundscapes to photos and videos:
https://apps.apple.com/gb/app/garageband/id408709785

**LGFL: Geo.LGFL.Net:** http://geo.lgfl.org.uk/geo-pack.html

**Computer Science:**

Barefoot: Classroom Sound Monitor -
https://www.barefootcomputing.org/resources/classroom-sound-monitor

Microbit: Using the accelerometer

https://makecode.microbit.org/reference/input/acceleration

1) Discuss how Earthquake warnings are created, how is this measured?
2) Make connection between technology reading movement using an accelerometer (example, iPad screen transfers from landscape to portrait)
3) Use the built into accelerometer on the Microbit
   Outcomes:
   - Create a rock, paper, scissors game
     https://makecode.microbit.org/projects/rock-paper-scissors
   - Magic 8 Microbit activity
     https://makecode.microbit.org/lessons/magic-8/activity

Create a compass
https://www.youtube.com/watch?v=9IyssvevhJ0&list=PLMMBk9hE-SepocOwueEtTDyOPI_TBE9y

# Our World

**The British Isles**

Cross-curricular links: English and Geography

Maps and locational knowledge. (Evidence in topic books.)

https://www.busythings.co.uk

# Magic and Mystery

Development of key skills to be continued… use resources (see above) as lesson starters.

Introduction to coding.

Red Riding Hood walking to her grandma's house.

Aim: children to use bee-bots to create Red Riding Hood's journey.

1.Unplugged activity: Children to act it out first. Work in pairs, one giving instructions to the other. Make this as interactive as possible. Use the classroom floor as a resource. Use squares to help them visualize the distances and directions. This would work well in the hall or outside. (vocabulary: left, right, forward, backward)
2.Then to be given cut-outs of bee-bots or a picture/model of Little Red Riding Hood. Give children gird paper and ask them to map out Red Riding Hood's journey by writing a sequence of instructions. Think about the start and the end of the journey. This could be illustrated with a house to show the destination.
3.Working with Bee-bots: children to start experimenting with bee-bots. Become familiar with the arrows.
●Give them an open-ended task: e.g How many different ways can Red Riding Hood take to get to grandma's house?
●Closed-ended task: children to replicate the work they did on paper using beebots.
Coding Task- Extension

https://www.j2e.com/jit5#turtle

# Geography – Local Area

**Computer Science:**

- **Trip outside**: Children take photos of amenities in their local area and plot onto Google Maps – Print and create Bee bot Grid
- 1) Barefoot World Map: https://www.barefootcomputing.org/resources/world-map-logic-activity
- 2) On Grid created from trip outside: **Unplugged**: Children use Fake bots to get to each amenity
- 3) Children use programming skills to program Bee bot to reach each amenity (use Bee bot costume template)
- 4) **Challenge**: https://www.j2e.com/jit5#turtle code the person to reach each of the locations around town

# Rainforests

- Cross-Curricular: English, Art and Computing
  Create a poster on about the rainforest

  https://www.j2e.com/jit5#paint

- **Bee-bots through the rainforest**
  Use bee-bots to create a pathway through a rainforest. Children to become familiar with simple algorithms (instructions).

1. Unplugged activity: Children to act it out first. Work in pairs, one giving instructions to the other.
2. Then to be given cut-outs of bee-bots or a rainforest animal on grid paper. Get children to write a sequence of instructions in order to get the animal to the desired location.
3. Working with Bee-bots: children to start experimenting with bee-bots. Become familiar with the arrows. Give them an open-ended task: e.g How many ways can you get your animal to travel to the river?

**Art Link:** Children can draw or colour in their own rainforest animal which can be stuck on the bee-bot. They can also decorate a large area of paper in order to make their own rainforest (this can be done in groups). Or they can construct a model of the rainforest, similar to The Great Fire of London activity (see above.)

- **LGfL: Busy things Rainforest resources** 


# Living things and their Habitats/ Our Community

- Barefoot Goes Wild. (see Barefoot pack)
  https://www.barefootcomputing.org/resources/barefoot-goes-wild
- Geography

  Busy Things- Living Things 


- **Busy things Habitat Resources** 

- **Malala/Courage**
- https://www.puffinschools.co.uk/resources/ks2-video-malalas-magic-pencil-malala-yousafzai-2-mins/
- https://www.twinkl.co.uk/resource/t2-p-269-malala-yousafzai-powerpoint

**Computer Science:**

- **Scratch Jnr – Tinkering**
  **https://www.barefootcomputing.org/resources/send-scratch-tinkering-activity**
- Scratch Jnr Habitat animation: Children choose an environment and select animals that live in that habitat
- Children practice using the movement and speech tools to get their animals to move and tell facts about their environment or diet

# Splash- Weather

- Movie-making

  Cross-curricular Links: English (writing, speaking and listening), Geography, Science

  Create a weather forecast using green screen technology.

- **Blogging**

  Children to use JIT5 or J2e5 to publish a piece of writing. This can then be added to school's online blog.

  https://www.j2e.com/

- **JIT** https://www.lgfl.net/learning-resources/summary-page/jit
  Children create pictograms about different weather patterns
  Children use the J2Chart to present their work

# Sustainability & the future: (Sustainable power)

- **J25** Children to use JIT5 or J2e5 to publish a poster about Sustainability. This can then be added to school's online blog or printed and displayed around the school
- https://www.j2e.com/
- Children to use Do Ink Green Screen to share videos about sustainability (Link with habitats)
- https://apps.apple.com/gb/app/green-screen-by-do-ink/id730091131
- Use **book creator** to rewrite versions of the world with climate change
- https://bookcreator.com/
- Create your own power (Potato Circuit/Kinetic energy/STEAM Solar farm)

# Mighty Mountains & Geography – Volcanoes and Earthquakes

- Recreating the sounds of Mountains, Volcanoes and Earthquakes
- Chrome Music Lab – Investigate sound waves and patterns: https://musiclab.chromeexperiments.com/
- Garage Band – Creating soundscapes to photos and videos: https://apps.apple.com/gb/app/garageband/id408709785
- **LGFL: Geo.LGFL.Net:** http://geo.lgfl.org.uk/geo-pack.html
- **Computer Science links:**
- Barefoot: Classroom Sound Monitor https://www.barefootcomputing.org/resources/classroom-sound-monitor
- Microbit: Using the accelerometer https://makecode.microbit.org/reference/input/acceleration

4) Discuss how Earthquake warnings are created, how is this measured?
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   Outcomes:
   - Create a rock, paper, scissors game https://makecode.microbit.org/projects/rock-paper-scissors
   - Magic 8 Microbit activity https://makecode.microbit.org/lessons/magic-8/activity
   - Create a compass https://www.youtube.com/watch?v=9lyssvevhJ0&list=PLMMBk9hE-SepocOwueEtTDyOPI_TBE9y

# Digging up the Past (AR)

**IDig**: http://idig.lgfl.org.uk/index.php/idig-home/

Learn – Learn about archaeology

Practice – Using integrated app practice digging up the past

Excavate – Remove and inspect

Children to use Do Ink Green Screen to share videos about archaeology

https://apps.apple.com/gb/app/green-screen-by-do-ink/id730091131

# Dinosaurs:

http://dinosaurs.lgfl.org.uk/default.html

Dinosaurs to Fossil Fuels, create **Google Slides** or **Book Creator**

- **Jurassic Park – Use Islington Library Service**

# Geography – Types of Settlement and Land Use

- Google Sites: Children research and create their own Google Site about different types of Settlement around the globe.
- https://sites.google.com/new

# Arabian Nights:

**Minecraft: Create an Arabian City https://www.youtube.com/watch?v=3QNln4y1WP4**

**History – Non EU Settlements**

**LGFL: http://geo.lgfl.org.uk/geo-pack.html**

**News from around the World**

- Children to use Do Ink Green Screen to share news stories from around the world. (Put together on iMovie)https://apps.apple.com/gb/app/green-screen-by-do-ink/id730091131

# Migration and Cultural Competencies

Interview the children and families across the school – Create a podcast using Garage Band.

# Exploring Shakespeare

Design Shakespeare's Globe.

https://cospaces.io/edu/

**LGFL:**

**https://content.lgfl.org.uk/secure/shakespeare/**

**Early Shakespeare: http://earlyshakespeare.lgfl.org.uk/RomeoAndJuliet-new/index.html**

**Busy things:** Shakespeare 


# Water cycle

- **J2code**: Make your water cycle
  Example: https://www.j2e.com/london-grid-for-learning/bdardis/The+water+cycle/#
- **Google Slides:** https://tinyurl.com/y45bf77n
  Collaborative project, How the water cycle works
- **Scratch:** Children use their debugging skills to detect and fix a problem: https://www.barefootcomputing.org/resources/bug-in-the-water-cycle
- **Kahoot –** What do you know about the water cycle? Create
- **Co Spaces:** Recreate the water cycle Template: https://edu.cospaces.io/DFJ-MFJ
- **Water Cycle in a bag**: https://tinyurl.com/y5xudf27

# Where do I live?

**Computer Science:**

- **Trip outside**: Children take photos of amenities in their local area and plot onto Google Maps – Print and create Bee bot Grid
- 1) Barefoot World Map: https://www.barefootcomputing.org/resources/world-map-logic-activity
- 2) On Grid created from trip outside: **Unplugged**: Children use Fake bots to get to each amenity
- 3) Children use programming skills to program Bee bot to reach each amenity (use Bee bot costume template)

  4) **Challenge**: https://www.j2e.com/jit5#turtle code the person to reach each of the locations around town

# Animals Including Humans

**Busy Things: Label the animals in the habitat**
**https://www.busythings.co.uk/lgfl-login/?activitytag=project_rainforest_habitats**

**Busy Things: Label the animals in the habitat**
**https://www.busythings.co.uk/lgfl-login/?activitytag=project_polar_bearspenguins**

**Children use J2animate: https://www.j2e.com/jit5#animate** to create an animation of an animal they know moving around.

# Everyday Materials

Children use j2paint: https://www.j2e.com/jit5#paint to create poster about an everyday materials and its properties

# Familiar Stories:

**LGFL Fairytales**: http://fairytales.lgfl.org.uk/

**Early Shakespeare: http://earlyshakespeare.lgfl.org.uk/RomeoAndJuliet-new/index.html**

# Toys Past and Present

- Use dress up (Islington Library Service) or Host Victorian Day. Children use Do Ink Green Screen to film and explain what they know about school days past and present.
- LGfL Content:https://docs.google.com/document/d/1LkZp_vgc0tzbi40iOLosIwdR_olNjntgBI1WN7hz98E/edit?usp=sharing (Planning for j2e/Busy Things /
- Mini Gray in RZL (Links with Toys in space) **readingzonelive.lgfl.org.uk/grey.html**

# My First Recipe Book

- Barefoot – Crazy Character (Phil Bagge) https://www.barefootcomputing.org/resources/crazy-character-algorithms

Use book creator to write a recipe book, children take a photo

# Indian Spice

A range of paintings from the Royal Collection Trust: https://imagebank.lgfl.org.uk/collection/145/160

# How does colour make our world?

**Computer Science:**

- **Trip outside**: Children take photos of colour around KCA amenities in their local area and plot onto Google Maps – Print and create Bee bot Grid (Camera Skills)
- 1) Barefoot World Map: https://www.barefootcomputing.org/resources/world-map-logic-activity
- 2) On Grid created from trip outside: **Unplugged**: Children use Fake bots to get to each amenity (Pictures of themselves)
- 3) Children use programming skills to program Bee bot to reach each amenity (use Bee bot costume template)

**Barefoot:**

- **Bee bot Tinkering: https://www.barefootcomputing.org/resources/bee-bots-tinkering-activity**
- **Bee bot Basics/Unit 1:** https://www.barefootcomputing.org/resources/bee-bots-basics-activity

**Challenge**: https://www.j2e.com/jit5#turtle code the person to reach each of the locations around town (upload picture of KCA)

**QR code hunt** – Link to Shape and colour: https://www.classtools.net/QR/

**Extension project:**

- **Use probots and pens to create colorful street art for KCA Hoarding**
- **Use Sphero and code them to go other the paint creating imagery**
- **https://www.amazon.co.uk/Sphero-ACH01BK1-Chariot-Black/dp/B00QIZU4ZC**
- **https://www.amazon.co.uk/Sphero-Specdrums-Enabled-Musical-Rings/dp/B07NDSNW2Z?ref_=ast_sto_dp**
- **https://www.amazon.co.uk/Sphero-SPRK-STEAM-Educational-Robot/dp/B01GZ1S7OS?ref_=ast_sto_dp**

# Plants

Cross-curricular links: Science

- https://www.busythings.co.uk 


- Part of Plant QR Code Hunt https://www.classtools.net/QR/

- **Sunflower Challenge –** Russian Giant seeds

-Work with SKIP Garden

# What is a home?

**Coding around parts of the house:**

**Shoe Box Project – Design and create a part of the home** --Code Beebot to move different parts of the house

- Unplugged activity: Children to act it out first. Work in pairs, one giving instructions to the other. Make this as interactive as possible. Use the classroom floor as a resource. Use squares to help them visualize the distances and directions. This would work well in the hall or outside. **(vocabulary: left, right, forward, backward)**

- Then to be given cut-outs of bee-bots or a picture/model of a person. Give children gird paper and ask them to map out parts of a home (use elf home as example) by writing a sequence of instructions. Think about the start and the end of the journey. This could be illustrated with a house to show the destination.

- Working with Bee-bots: children to start experimenting with bee-bots. Become familiar with the arrows.
    - Give them an open-ended task: e.g How many different ways can you get to a specific room?
    - Closed-ended task: children to replicate the work they did on paper using beebots.

Coding Task- Extension

https://www.j2e.com/jit5#turtle

**-Upload Cluedo board and use the human sprite**

Barefoot – House Patterns: https://www.barefootcomputing.org/resources/house-patterns-activity

**Music**

- **Musical Soundscapes for homes**
- **Isle of Tune - https://thefwa.com/cases/isle-of-tune**

Create your own soundscape using houses. Discuss how you can create music and use sensors/controls to create different sounds

**https://www.youtube.com/watch?v=to6YW_-0crA**

- **Recording musical pieces to go with each room**

# Seasons

**Stop Motion Animation -**Take a photo of weather every day and create a stop motion animation on iMovie

- **JIT** https://www.lgfl.net/learning-resources/summary-page/jit

Children create pictograms about different weather patterns
Children use the J2Chart to present their work

**Makey Makey project** Creating Music – What sound does rain make? / What sound does Snow make? – Create songs using Makey Makey

# How does pattern make our world?

**Computer Science:**

- **Trip outside**: Children take photos of Pattern around KCA amenities in their local area and plot onto Google Maps – Print and create Bee bot Grid (Camera Skills)
- 1) Barefoot World Map: https://www.barefootcomputing.org/resources/world-map-logic-activity
- 2) On Grid created from trip outside: **Unplugged**: Children use Fake bots to get to each amenity (Pictures of themselves)
- 3) Children use programming skills to program Bee bot to reach each amenity (use Bee bot costume template)

**Barefoot:**

- **Bee bot Tinkering: https://www.barefootcomputing.org/resources/bee-bots-tinkering-activity**
- **Bee bot Basics/Unit 1:** https://www.barefootcomputing.org/resources/bee-bots-basics-activity

**Challenge**: https://www.j2e.com/jit5#turtle code the person to reach each of the locations around town

**QR code hunt** –Pattern: https://www.classtools.net/QR/

**Extension project:**

- **Use probots and pens to create colorful street art for KCA Hoarding**
- **Use Sphero and code them to go other the paint creating imagery**
- Barefoot – Creating Patterns: https://www.barefootcomputing.org/resources/creating-patterns-activity

# Everyday Materials

- **LGFL - JIT** https://www.lgfl.net/learning-resources/summary-page/jit
  Children create J2Pictorgram about properties of different materials
- Children use the J2Chart to present their work

- QR code hunt – Link to Shape and colour: https://www.classtools.net/QR/

- **Take photos of materials in the environment around KCA/School –** Use Seesaw to annotate to describe properties

# Sensing and monitoring

- Children to use JIT5 or J2e5 to publish a piece of writing. This can then be added to school's online blog.
  https://www.j2e.com/

- **JIT** https://www.lgfl.net/learning-resources/summary-page/jit
  Children create pictograms about different weather patterns
  Children use the **J2Chart** to present their work

# Does everything change?

Take photos of the class everyday/weather

- Use photos to create whole class film that shows the growth, assign children to take the photos and use their camera skills

Data Loggers: (Check Resources) **Use Data loggers to record information about Rainfall**

# Habitats/ Animals Including Humas

- Barefoot Goes Wild. (see Barefoot pack)
  https://www.barefootcomputing.org/resources/barefoot-goes-wild

- Geography
  Busy Things- Living Things

- **Busy things Habitat Resources** 

- **Busy things: Animal including Humans resources**

- Use **book creator** to create a fact file about animals and their diet
  https://bookcreator.com/

- **Sunflower Challenge –** Russian Giant seeds

-Work with SKIP Garden

**Computer Science:**

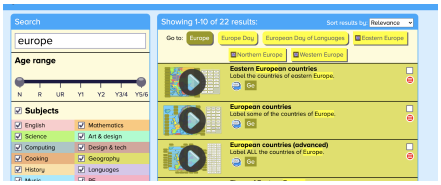
- **Scratch Jnr – Tinkering**
  **https://www.barefootcomputing.org/resources/send-scratch-tinkering-activity**
- **Scratch Jnr Habitat animation**: Children choose an environment and select animals that live in that habitat
- Children practice using the movement and speech tools to get their animals to move and tell facts about their environment or diet
- **Busy Things: Label the animals in the habitat**
  **https://www.busythings.co.uk/lgfl-login/?activitytag=project_rainforest_habitats**
- **Busy Things: Label the animals in the habitat**
  **https://www.busythings.co.uk/lgfl-login/?activitytag=project_polar_bearspenguins**
- **Children use J2animate: https://www.j2e.com/jit5#animate** to create an animation of an animal they know moving around.

# How are places different?

**Research: Case study – Comparing countries: LGFL**

- **Busy Things - Local area (UK and Non Eu Countries) - Continents and Oceans**

- **Journey through Europe: Landmarks and Landscapes: Search Europe in Busy Things:**




- **Gulliver's Travels iMovie:** **https://docs.google.com/document/d/1K-ub8KNkks6My-QOQHdjkBXeW_nl3dz2/edit** - Create a film using Do Ink background around the globe, put the film together – Create travel video

- **LGFL: Geo.LGFL.Net:** http://geo.lgfl.org.uk/geo-pack.html

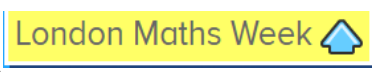
- **Compare music from around the globe (See Africa/Mayans)**

- Link to Geography topic: Children to use Do Ink Green Screen to share videos about different locations https://apps.apple.com/gb/app/green-screen-by-do-ink/id730091131

# What is London like?

**Computer Science (Photos of the area)**

- **Trip outside**: Children take photos of amenities in their local area and plot onto Google Maps – Print and create Bee bot Grid
- 1) Barefoot World Map: https://www.barefootcomputing.org/resources/world-map-logic-activity
- 2) On Grid created from trip outside: **Unplugged**: Children use Fake bots to get to each amenity
- 3) Children use programming skills to program Bee bot to reach each amenity (use Bee bot costume template)
  5) **Challenge**: https://www.j2e.com/jit5#turtle code the person to reach each of the locations around town

- **Busy Things:** London Math's Week 


Beebots through London

1) Children create London landmarks from around the world using cardboard and junk modelling and plot on the world map grid

2) On Grid **Unplugged**: Children use Fake bots to get to each landmark
3) Children use programming skills to program Bee bot to reach each amenity (use Bee bot costume template)

- **Illustration using** https://paintz.app/
  Recreate London landscape
- **Interview** people around King's Cross – What do you like about London? – Turn into Radio Show using Soundcloud

# What is a good diet?

- Children make top tip films about staying healthy (recreate Go Noodle) – using **Green Screen**
- **Leaflets** Children go and hand out leaflets about healthy diets (created using template)
- **Flash Buzz interviewing/** Using data to record different meals
- **Data Handling –** Use ping pong balls to collect ideas about what people are eating
- **Giant Healthy Eating Plate –** Dress up as different vegetables/food items – Take huge picture of whole school

- **(Planning for j2e/Busy Things)**
  https://docs.google.com/document/d/1HMDfix5DLFVovKup5KOOVk1vcLiJR5yW9hKuifZ3gw8/edit?usp=sharing
- **Poster using** https://paintz.app/
  Recreate a painting of fruit bowl
- **Create a Healthy Eating Poster**
  https://www.j2e.com/jit5#paint
- **Make Healthy Eating videos** and display around the school (use Green Screen)

  https://apps.apple.com/gb/app/green-screen-by-do-ink/id730091131
- Use **j2Write** https://www.j2e.com/jit5# to write about healthy eating and share to blog

  **Record a podcast** using Garage Band about healthy eating you have researched. Upload to Sound cloud and share via Twitter and QR code posters around the school. Could also set up Listening stations.

# Who am I?

- https://docs.google.com/document/d/1HMDfix5DLFVovKup5KOOVk1vcLiJR5yW9hKuifZ3gw8/edit?usp=sharing (Planning for j2e/Busy Things)
- Seesaw – Take a photo and animate using drawing tool (look at Seesaw Activity Library)
- **Poster using** https://paintz.app/ about myself
- **Rosa Parks** – Use J2E to create BLM posters that can be displayed around the school

# Egypt

**Creating Hieroglyphics – Create your own code with a partner**

- Barefoot – Creating Patterns:
  https://www.barefootcomputing.org/resources/creating-patterns-activity

**Microbit**: Creating Hieroglyphics using the LED
https://makecode.microbit.org/reference/basic/show-leds

**Co Spaces**

1: Co Spaces: https://www.youtube.com/watch?v=zUR9i60zLo8 Discuss what you do on Co Spaces

2: Co Spaces: VR Adventure Game: https://edu.cospaces.io/PGE-SDD - Children play the game to learn controls, understand functions of Co Spaces.

3: Children create their own tomb using Co Spaces

**Egypt:** Egypt.lgfl.net / Search Egypt in Busy Things / Widgit symbols books:
**https://www.lgfl.net/widgit/worksheets/history/**

**Online Blogging**

Cross-curricular links: English and History

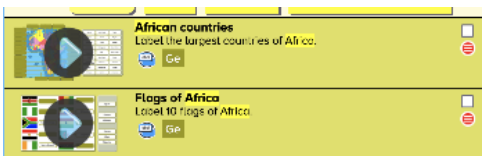
Publish one of their writing pieces using j2e5.

To access:

https://www.j2e.com/

# Africa

**Busy Things: Africa**




**Egypt**

- Children to research about the **Egyptians** (see resources).
  AR capacity: Download Activ Lens – Egypt to view augmented reality worksheets
  LGfL: http://ancientegypt.lgfl.org.uk/
  LGfL: http://geo.lgfl.org.uk/

Busy things: Ancient Egypt 

Multiple outcomes:

- spider diagram which illustrates what they've learnt
- PowerPoint presentation/Google Slides (Collaborative Learning Project)
- Non-chronological report (building of the Pyramids)
- Diary entry from the perspective of an Egyptian
- Poster advertising a job vacancy for building the pyramids (this can be done as an online project).

**Minecraft:** Recreate Egyptian City: https://www.youtube.com/watch?v=0tw5AS4VN5g

**Music in Africa**

- Children research music in Africa (Rain sticks/ Gum boot dancing https://www.youtube.com/watch?v=fYYYymWvhAI)
- Create musical instruments from Junk and recycled material https://www.google.co.uk/search?q=creating+rain+sticks&safe=active&ssui=on#kpvalbx=_uYVgX8W-CMfwgQb5lJKoDw43
- Children record using iPad/Garage band and upload to Sound cloud
  Links: https://soundcloud.com/

# How have things changed from the past?

- Timeline – using Padlet (Timeline) (transport etc.)

# What kind of different places are there?

**-Google Sites project** – Link with Charities around the globe

**https://sites.google.com/d/13MFg14b19uBXrnI6V-ZYNsnPu70DFlGT/p/1kYVEcYFRLHgz-gKiEVL7eUmW0E0wMG6v/edit**

# Electricity

**Making Cars (Circuits) - https://www.makerspaces.com/make-a-battery-powered-diy-car/**

# Sound

- **Chrome Music Lab** – Looking at vibrations: **https://musiclab.chromeexperiments.com/**

- **Makey Makey –** Create a keyboard on stairs or in King's Cross

- **Garage Band –** Create your own piece of music, record and play across the school (sound scape/ sound effects for horrible histories) Music **from Victorian times (Garage band)**

# Tudors:

- **CoSpaces Project** Design Shakespeare's Globe. https://cospaces.io/edu/

-Code people to act and move on stage


**Busy Things:** Tudor Fashion

- Tudor Men's Fashion
- Tudor Women's Fashion
- Early Tudor Clothing
- Tudor Clothing Quiz

**Co Spaces**, Create virtual exhibition: https://cospaces.io/edu/virtual-exhibition-lesson-plan.pdf

Example: https://edu.cospaces.io/RHK-AXP

**Fashion Show Dance Moves:**

Barefoot: https://www.barefootcomputing.org/resources/dance-move-algorithms

**LGFL:**

**https://content.lgfl.org.uk/secure/shakespeare/**

**Early Shakespeare: http://earlyshakespeare.lgfl.org.uk/RomeoAndJuliet-new/index.html**

**Busy things:** Shakespeare 


**iMovie -** Victorian news shows (Focus on fashion/transport updates. film and feedback to the group)

- https://www.barefootcomputing.org/resources/bug-in-the-water-cycle

# Farming

**Tea in Malawi:**
https://schools.fairtrade.org.uk/resource/tea-in-malawi-what-happens-when-you-choose-fairtrade/

Tea in Malawi slides:
https://docs.google.com/presentation/d/1QcI64rkFa2Xc8UdCAXpWMvzBwnoO184VxeIhDifCUAs/edit#slide=id.p1

**-Discuss and debate** – How does farming affect – tourism/land use/water use/ deforestation (Voice 21)

**-Kentish Town Farm**

- Take a trip to the farm (Kentish Town – Take pictures of animals and create an **iMovie** trailer)

**Computer Science:**

**Scratch Jnr Farm animation:** **https://www.youtube.com/watch?v=LbXy2F7shCc**

# USA Colonists – Civil War

Learn about USA

Living in USA today – Link to BLM/BHM

https://breakyourownnews.com/ **News Shows** (Fake News/Current Affairs)

# Forces:

**Co Spaces:** Physics engine – https://cospaces.io/edu/physics.html

Physics Feature Demo: https://edu.cospaces.io/LRN-VMA

# What is it like to live in Central America today?

- Case study – look at locations in Central America (Create a P**adlet** and drop pins)
- **Google Sites** – Research certain location and create site/ present to rest of the class

# French Revolution link

**Viva la Francais :** https://tinyurl.com/yysgxpoa

**Make a song with music** Video across Year 6: Imagine by John Legend: **https://www.youtube.com/watch?v=VOgFZfRVaww**

**Trips:** France – Eurostar visit

ISLINGTON

# Computer Science – Year 6

Kodu tinkering activity:
https://www.barefootcomputing.org/resources/kodu-tinkering-activity

Introduction to HTML: https://www.barefootcomputing.org/resources/introduction-to-html

Code Combat: https://codecombat.com/

Making a game: https://www.barefootcomputing.org/resources/make-a-game-project