

Science and the Wider Curriculum - Planning and Ideas



Week Commencing: Monday 1st June 2020

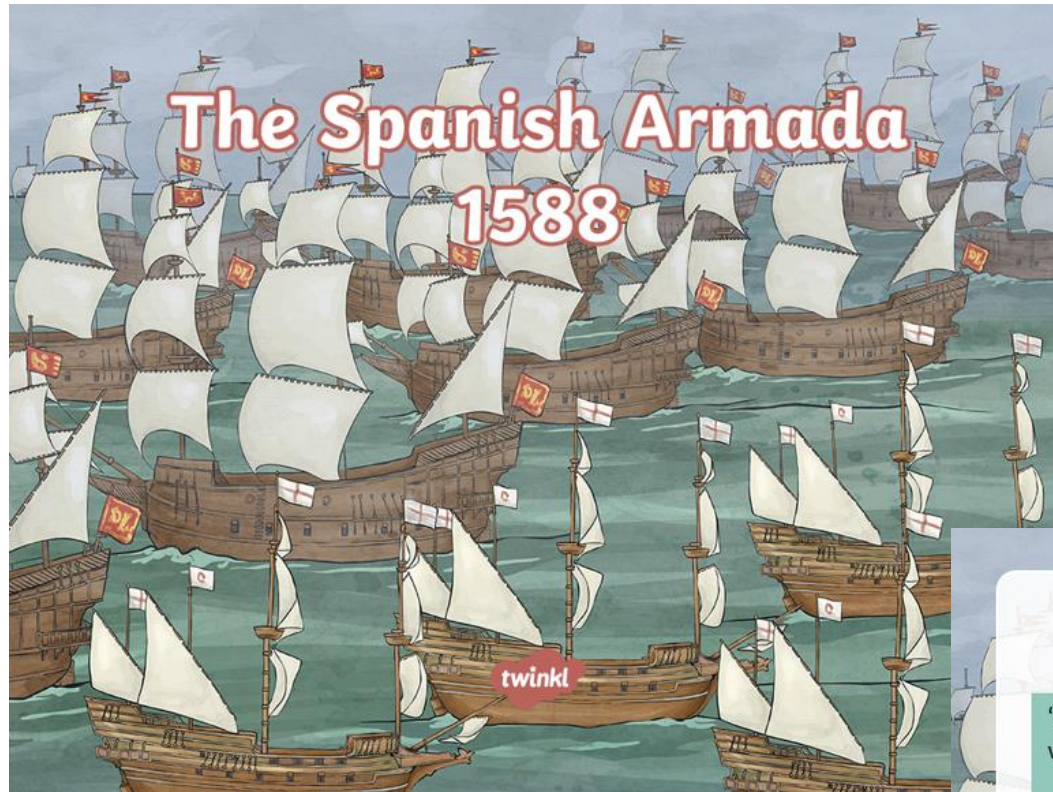
Year Groups: 3/4

	Monday	Tuesday	Wednesday	Thursday	Friday
Area of Learning	Subject: History LC: Can you explain the events of the Spanish Armada?	Subject: French LC: Can you recognise names of breakfast foods and drinks in French?	Subject: Music/Art LC: Can you listen to music and create an image based on what you can hear?	Subject: Science LC: Can you investigate what seeds need to germinate?	Subject: LC: Can you research World Environment Day and what you can do to make a change?
Activity	<p>Starter:</p> <p>What can you remember about the reign of Elizabeth I? (particular focus on religion)</p> <p>-Children to discuss their ideas.</p> <p>Main:</p> <p>Use the powerpoint to discuss the order of events during the Spanish Armada and the eventual outcome of the attack on England.</p>	<p>Starter:</p> <p>Ask the children to make a list of foods and drinks that you may have for breakfast.</p> <p>Main:</p> <p>Using the powerpoint slides go through the different foods and drinks and their French translations.</p> <p>Independent:</p>	<p>Starter:</p> <p>Pick three different pieces of music that have very different sounds to them. Gustav Holst's The Planets is good for this. (eg. Mars, Jupiter and Venus etc.)</p> <p>Main:</p> <p>Look up the pieces of music on Youtube. For the pieces mentioned above see the links in the resources section below.</p> <p>Independent:</p>	<p>Starter:</p> <p>Collect your equipment for the investigation:</p> <ul style="list-style-type: none"> • Seeds • Pots syringe/jug • Ruler • Soil • Sand if you have any • Pebbles/small stones • Cereal boxes <p>Main:</p> <p>Children to decide which investigation to do. They have three to choose from:</p>	<p>Starter:</p> <p>Explain to the children that today is World Environment Day. Ask the children what they think this means?</p> <p>Main:</p> <p>Explain to the children that every year on 5th June people celebrate World Environment Day. The idea is that people think about how they can lead more eco-friendly lives and make</p>

	<p>Key points to discuss: -Why did Spain attack England? -Reasons behind Spain's defeat.</p> <p>Independent:</p> <p>Children to use the knowledge they have gathered to create a comic strip of the key events of the Spanish Armada.</p> <p>Think about the following when writing your descriptions of your images: -Dates -Reasons behind an event -Chronological order (time order)</p>	<p>Children to complete the worksheet filling in the French names of foods and drinks that correspond to the correct image. Once they have done this if there are any foods or drinks they have listed that were not in the powerpoint the children can try finding out the French translation as a challenge.</p>	<p>Ask the children to listen to the pieces of music (you do not have to play the whole piece – just enough to get the feel of the music). First time round have the children just listen to the music and have them think about how the music makes them feel. Second time round have them use crayons or felt tips to create an image of what the music makes them think and feel. This can simply be a representation in colour rather than an actual image. Repeat the process for all three pieces of music.</p>	<p>Investigation 1: How much water do seeds need to grow?</p> <p>Children use quick germinating seeds if possible and choose to grow seeds in three pots or a seed tray where they can give different amounts of water to seeds. The pots must contain the same amount of seeds and soil for this investigation. Syringes are very good for this activity because children can measure exact amounts of water and make sure the water goes directly on individual seeds (do not worry if you do not have a syringe, a jug that measures in 50ml increments will work as well). This also ensures that children are using standard measurements (ml) and that they can also measure height of growth. They need to water seeds in different compartments of the seed trays or pots beginning with no water, then 10 ml, 50 ml, or 100</p>	<p>the world a more sustainable place to live.</p> <p>Independent:</p> <p>Children to research facts about World Environment Day using the internet and create a list of what they have learnt. Children then to think of ways they could help the environment and be more eco-friendly and create a poster or leaflet detailing their ideas.</p>
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				<p>ml. Children to complete table in resources.</p> <p>Investigation 2: Do seeds need soil to grow?</p> <p>Ask children how they would make their test fair, e.g. same amount of soil, sand, stones, sawdust or whatever else they choose to use, measure same amount of water, keep in same place, temperature. Children to plant their seeds. At the end of say a week, children to check the seeds and then again after 2 weeks. Children to record their results in the table (table found in resources).</p> <p>Investigation 3: Do seeds need light to grow?</p> <p>Children will need to use plants that have already grown, or seedlings. This is a comparative test where children grow two plants one in light and the</p>	
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				<p>other in no light. Over a week or two weeks, both plants should grow but the quality of growth will be different.</p> <p>In this activity, children will observe and take measurements (e.g. how tall they grow) and the quality of growth (e.g. yellowing leaves, spindly growth). Keeping a photographic or video diary where children comment on the growth and take measurements (table can be found in resources)</p>	
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What Is an Armada?

'Armada' means a fleet of warships.

The famous Spanish Armada was sent to England by Philip II of Spain in 1588.

His 'armada' was made up of around 130 ships containing around 30 000 troops and 2500 guns.



What Was the Reason for the Invasion?

At the end of the 1500s, Spain was a very powerful nation. They were at odds with England for various reasons (mainly religious) and England had helped Spanish rebels attack Spain's treasure fleet.

Philip II of Spain was also very angry that the English Queen Elizabeth I had executed the catholic Mary Queen of Scots in 1587.



The Plan

Philip II's plan was to:

1. gather an armada together of 130 ships;
2. sail to the Netherlands where the Spanish Army would be picked up;
3. invade England.



The Series of Events in 1588

1. The Spanish ships leave Lisbon to pick up soldiers. However, they run into bad weather and have to return.



The Series of Events in 1588

2. The Spanish fleet leave for the second time from Spain.



The Series of Events in 1588

3. The Spanish are spotted as they pass Plymouth.



The Series of Events in 1588

4. The English fleet, led by Sir Francis Drake, attack the Spanish in the English Channel but the Armada are in a crescent formation and no ammunition can get through, so Drake retreats.



The Series of Events in 1588

5. The Spanish Armada anchor near Calais.



The Series of Events in 1588

6. Drake takes the English fleet to Calais to attack the Spanish again, using fire ships to split the Spanish Fleet in what is known as the Battle of Gravelines – this time succeeding.



The Series of Events in 1588

7. The Spanish ships are chased away from England via the North Sea towards Scotland.



The Series of Events in 1588

8. When rounding Scotland and Ireland, the Spanish ships encounter bad weather and ships and men are lost.



The Series of Events in 1588

9. A depleted armada returns to Spain.



Fire Ships

When Francis Drake took the English fleet to attack the Spanish while they were anchored near Calais, he used what are known as fire ships. These were old ships that were set fire and sent to sail towards the enemy. This made the Spanish ships scatter and break their formation, making it easier for the English to attack the Spanish ships.



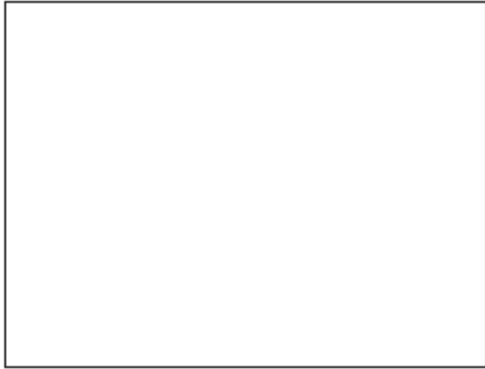
The Result

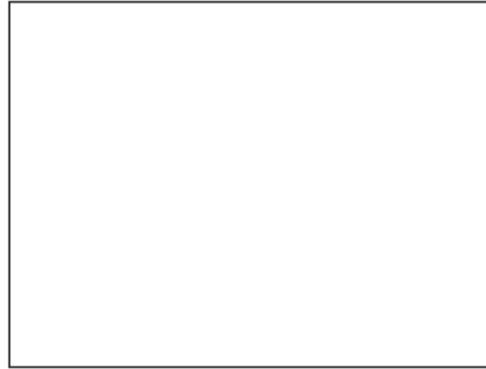
England rejoiced at defeating the Spanish and Elizabeth I commissioned a painting to mark the occasion.

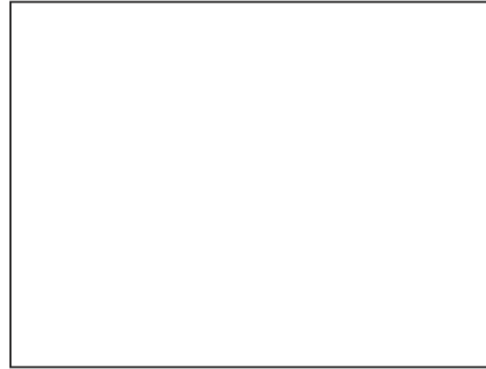
England also remained a protestant country (rather than catholic) with the monarch in charge (rather than the Pope). Britain also became a force to be reckoned with when it came to naval warfare, while Spain's superpower status waned.

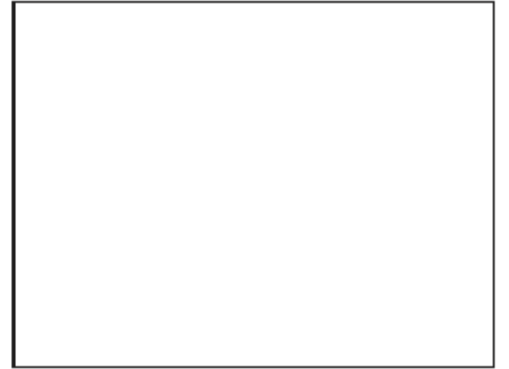


The Spanish Armada Story

















French Breakfasts

le café



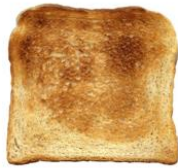
le lait



le jus
d'orange



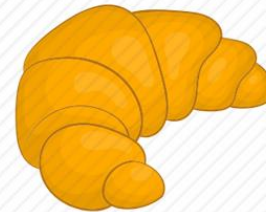
Le pain grillé



le beurre



la confiture



le croissant



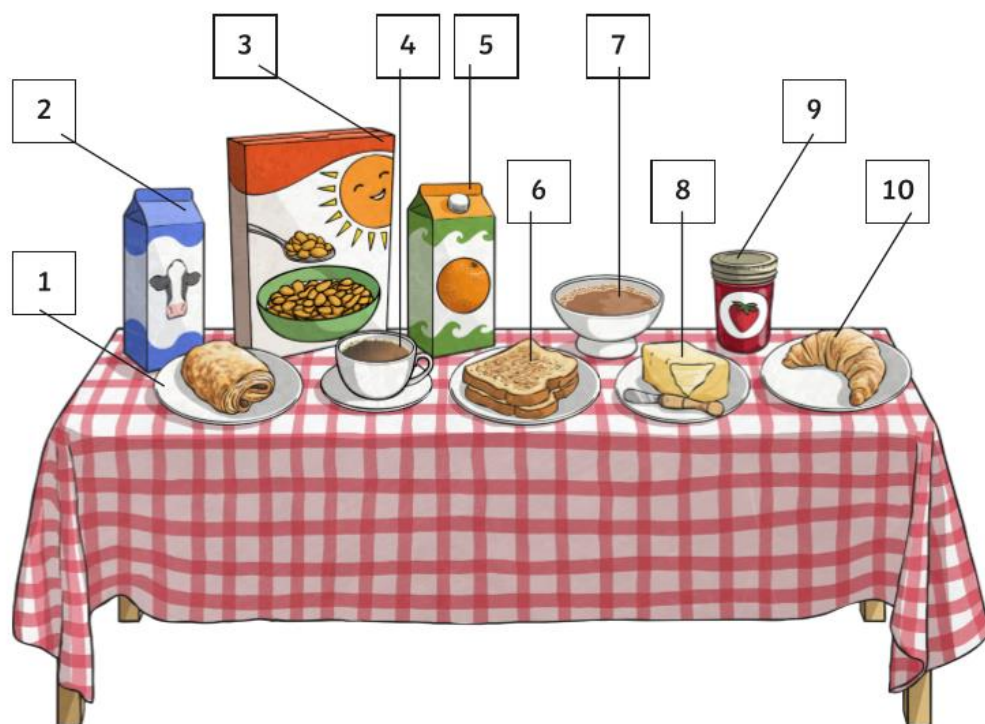
le pain au
chocolat



le chocolat chaud



les céréales



1		6	
2		7	
3		8	
4		9	
5		10	

Music/Art – Wednesday 3rd June 2020

<https://www.youtube.com/watch?v=Jmk5frp6-3Q> – Mars

<https://www.youtube.com/watch?v=Gu77Vtja30c> – Jupiter

https://www.youtube.com/watch?v=EE6_PacCnRw - Venus

Science – Thursday 4th June 2020

Investigation 1: How much water do seeds need to grow?

	<u>0 mls/Height in cms</u>	<u>50mls/ Height in cms</u>	<u>100mls/ Height in cms</u>
<u>Day 1</u>			
<u>Day 3</u>			
<u>Day 6</u>			
<u>Day 10</u>			
<u>Day 20</u>			

Investigation 2: Do seeds need soil to grow?

	<u>Type of Soil _____ Height in cms</u>	<u>Type of Soil _____ Height in cms</u>	<u>Type of Soil _____ Height in cms</u>	<u>Type of Soil _____ Height in cms</u>
<u>Day 1</u>				
<u>Day 3</u>				
<u>Day 6</u>				
<u>Day 10</u>				
<u>Day 20</u>				

Investigation3: Do seeds need light to grow?

	<u>Plant 1</u> <u>Height in cms</u>	<u>Plant 2</u> <u>Height in cms</u>	<u>Plant 1</u> <u>Condition of plant</u>	<u>Plant 2</u> <u>Condition of plant</u>
<u>Day 1</u>				
<u>Day 3</u>				
<u>Day 6</u>				
<u>Day 10</u>				
<u>Day 20</u>				

Friday 5th June 2020

No resources needed.

Where can I complete further work?

[Twinkl](#) – Subscription service used by schools is offering a free premium service for teachers, parents and children to use whilst schools are closed. Enter the code **UKTWINKLHELPS** for access to worksheets, powerpoints and interactive games to support all areas of learning.

[Classroom Secrets](#) – Free Maths, Reading and Grammar home learning packs and interactive resources for all ages.

[BBC Bitesize Primary](#) – Free learning resources available for KS1 and KS2 across all subjects.

[Oxford Owl](#) – Free ebooks and reading resources available when you create a free login.

[Phonics Play](#) – Subscription service is offering free access to their learning resources during this period. Follow the link for details on how to gain free access.

[Top Marks](#) – Free educational resources and games for English and Maths.

[ICT Games](#) – Free educational resources and games for English and Maths.