

# Year 8 Home Learning Support Document

In this booklet you will find an outline of your PREP Learning tasks to be completed for this half term.

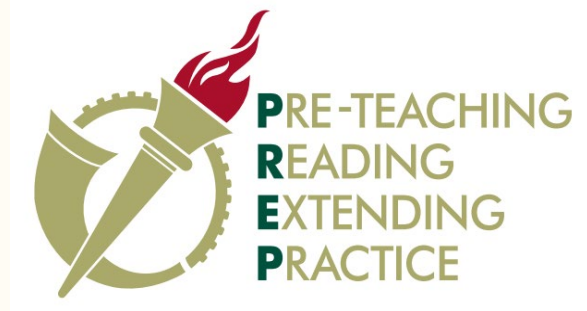
All PREP Learning tasks are essential to your learning in lessons and revolve around four principles:

**Practice** – helping you to retain and remember information

**Reading**- helping you to build your knowledge

**Extend** – helping you to secure knowledge or skills

**Pre-Learning**– preparing you for learning



Your teachers will give you further resources and put further information surrounding your assignments on Class Charts during the week they are set and all work complete will be used as part of your lesson, so it is important to complete it on time. Due date will be on Class Charts.

Remember, if you are unsure of the work you need to complete you can: seek support speak to/email your teacher or attend Home Learning Club after school.

Spring term: February – March 2024

# Subject: Computer Science

# Resources to support lessons

Decomposition, properties, event-driven programming, sequence, parameters, variables, event handler, checkbox

## Key Vocabulary

## Websites and Resources to develop your understanding of

1. **CoderDojo Nano** by Mark Hatter
2. **Become an app inventor** by Karen Lang and Selim Tezel
3. **A beginners guide to Coding** by Mark Scott

Code.org debugging video:

<https://www.youtube.com/watch?v=auv10y-dN4s>

Mobile development languages:

<https://medium.com/javarevisited/top-5-programming-languages-for-mobile-app-development-in-2021-19a1778195b8>

Day in the life of a iOS developer:

<https://www.youtube.com/watch?v=aLccZMTLsmQ>

## KS3 books and online resources

Spring Term: February – March 2024

**Year 8 – Mobile app development**



1. Linkages
2. Motion
3. Force
4. Mechanical devices
5. Sustainability



**Key Vocabulary**

**Websites and Resources  
to develop your  
understanding of**



- Stuff Matters – Mark Miodownik
- No More Plastic – Martin Dorey
- Why Materials Matter – Seetal Solanki
- Bauhaus – Magdalena Droste
- Finnish Design – Pekka Korvenmaa
- Why Shrink Wrap a Cucumber – Stephen Aldridge
- The Language of Things - Deyan Sudjic
- Change by Design – Tim Brown
- The Design Thinking Playbook – Wiley

- **Oak Academy:**  
[https://teachers.thenational.academy/subjects/design-technology?fbclid=IwAR3J6XQzHL4mUbEg1PXSJFpsxrxtgQ-FAgbrndWigf\\_n\\_oKWPWAYkGuJL3g](https://teachers.thenational.academy/subjects/design-technology?fbclid=IwAR3J6XQzHL4mUbEg1PXSJFpsxrxtgQ-FAgbrndWigf_n_oKWPWAYkGuJL3g)
- **Design and Technology student:**  
<https://technologystudent.com/>
- **BBC Bitesize:**  
<https://www.bbc.co.uk/bitesize/subjects/zvg4d2p>
- **Design and Technology Info:**  
<http://www.design-technology.info/>
- **STEM:**  
<https://www.stem.org.uk/secondary/resources/collections/home-learning-support/d-and-t-resources>

**KS3 Books to read**



Spring Term: February – March 2024

**Year 8 - Lamp Project**

1. Hole Cutter
2. Sublimation Printing
3. Forstner Drill Bit
4. Template
5. Accuracy

↖  
**Key Vocabulary**

**Websites and Resources  
to develop your  
understanding of**



- Stuff Matters – Mark Miodownik
- No More Plastic – Martin Dorey
- Why Materials Matter – Seetal Solanki
- Bauhaus – Magdalena Droste
- Finnish Design – Pekka Korvenmaa
- Why Shrink Wrap a Cucumber – Stephen Aldridge
- The Language of Things - Deyan Sudjic
- Change by Design – Tim Brown
- The Design Thinking Playbook – Wiley

- **Oak Academy:**  
[https://teachers.thenational.academy/subjects/design-technology?fbclid=IwAR3J6XQzHL4mUbEg1PXSJFpsxrxtgQ-FAgbrndWigf\\_n\\_oKWPWAYkGuJL3g](https://teachers.thenational.academy/subjects/design-technology?fbclid=IwAR3J6XQzHL4mUbEg1PXSJFpsxrxtgQ-FAgbrndWigf_n_oKWPWAYkGuJL3g)
- **Design and Technology student:**  
<https://technologystudent.com/>
- **BBC Bitesize:**  
<https://www.bbc.co.uk/bitesize/subjects/zvg4d2p>
- **Design and Technology Info:**  
<http://www.design-technology.info/>
- **STEM:**  
<https://www.stem.org.uk/secondary/resources/collections/home-learning-support/d-and-t-resources>

**KS3 Books to read**



Spring Term: February – March 2024

**Year 8 Passive Speaker**



PREP	Topic	Assignment	Completed?
Reading	The Tempest	Task – Please make sure you have a reading for pleasure book and are reading for at least 15 minutes every day.	
Practice	The Tempest	Task – Please complete the analytical writing task as directed by your teacher	
Practice/ Extending	The Tempest	Task – Please complete the creative writing task as directed by your teacher	
Practice	The Tempest	Task – Select a piece of writing you have completed in class and redraft it.	
Practice/ Extending	The Tempest	Task – Do you have a book for the break? Make sure you have a reading book and that you know what your reading target is.	

- ☐ Malevolent
- 1 ☐ Colonisation
- ☐ Colonialism
- ☐ Native
- ☐ Usurp
- ☐ Pathos
- ☐ callous

### Key Vocabulary

Learn these using the suggested activities in your vocabulary books

Please see unit 2 on your Reading Journey

### Recommended Reading

- <https://classroom.thenational.academy/units/shakespearean-comedy-the-tempest-88f0>
- <https://www.bbc.co.uk/bitesize/topics/z37mn39>

### Useful Research Sites

PREP	Topic	Assignment	Completed?
Practice	Past healthy changes	Complete week 5 in booklet and revise 5A vocabulary on knowledge organiser.	
Practice	Future healthy actions	Complete week 6 in booklet and revise 6A vocabulary on knowledge organiser.	
Practice	Healthy lifestyles	Revise your vocabulary from the topic. Use Quizlet to help you to practice.	
Practice	Using technology	Complete week 1 in booklet and revise 1A vocabulary on knowledge organiser.	
Practice	Listening to music	Complete week 2 in booklet and revise 2A vocabulary on knowledge organiser.	

Pour garder la forme – **to stay**

**healthy**

Je joue – **I play**

Je fais – **I do**

Il faut manger – **you must eat**

On doit éviter – **You must avoid**

Je le trouve – **I find it**

## Key Vocabulary

Learn these using the suggested activities in your vocabulary books

**Little People, Big Dreams, Louis Pasteur / Simone de Beauvoir**

**Passeport foot (various)**  
By Étienne Bonamy  
**Le Casque Mystérieux**  
by Pierre Delaisne

## Recommended Reading

[www.wordreference.com](http://www.wordreference.com)

[www.duolingo.com/](http://www.duolingo.com/)

[www.quizlet.com](http://www.quizlet.com)

[www.memrise.com](http://www.memrise.com)

## Useful Research Sites

Spring Term: February – March 2024

**Year 8**

# Subject: Geography

## Learning Cycle 3 – Australia

PREP	Topic	Assignment	Completed?
Reflect	Australian biomes	Describe the location and characteristics of the different biomes that exist in Australia	
Revise and Learn	Australia	Revise the key terms from the Australia knowledge organizer in preparation for a quiz in lesson	
Extend	Wildfires	Read the article and create a revision mind map all about Australian bushfires <a href="https://www.rgs.org/schools/resources-for-schools/australian-wildfires">https://www.rgs.org/schools/resources-for-schools/australian-wildfires</a>	

1. Biome
2. Wildfires
3. Australia
4. Tropical Rainforest
5. Hot Desert

### Recommended Reading

1. <https://www.rgs.org/schools/resources-for-schools/australian-wildfires>
2. <https://www.gvi.co.uk/blog/smb-9-amazing-adaptations-of-desert-animals/#:~:text=For%20example%2C%20many%20desert%20animals,a%20higher%20tolerance%20for%20salt.>

### Key Vocabulary

Learn these using the suggested activities in your vocabulary books

<https://www.rgs.org/schools/resources-for-schools/australian-wildfires>

<https://www.natureaustralia.org.au/what-we-do/our-priorities/wildlife/wildlife-stories/desert-dwellers/>

<https://www.daintreerainforest.com/>

### Useful Research Sites

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# Subject: History

## Learning Cycle 4: **WWI: What shadows did the First World War cast over the twentieth century?**

PREP	Topic	Assignment	Completed?
Practice	Trench Warfare	Complete the Microsoft Forms Quiz on Trench Warfare	
Practice	Impact of WWI	Complete the Microsoft Forms Quiz on the significance of WWI	
Extend	Meanwhile Elsewhere	Complete the Meanwhile Elsewhere task on the Dublin Easter Rising 1916	

1. Trench
2. Artillery
3. Somme
4. Attrition
5. Legacy

### Recommended Reading

- 1: Imperial War Museum  
<https://www.iwm.org.uk/history/5-things-you-need-to-know-about-the-first-world-war#:~:text=It%20was%20a%20global%20war,together%20formed%20the%20Central%20Powers.>
- 2: How did WWI change the world?  
<https://www.bbc.co.uk/newsround/45966335>
- 3: Legacies of World War One:  
<https://graphics.wsj.com/100-legacies-from-world-war-1/>

### Key Vocabulary

Learn these using the suggested activities in your vocabulary books

1. BBC Bitesize WWI  
<https://www.bbc.co.uk/bitesize/topics/z4crd2p/articles/znpm7yc>
2. Impact of War on West Indies  
<https://www.bbc.co.uk/bitesize/topics/z4crd2p/articles/z847dp3>

### Useful Research Sites

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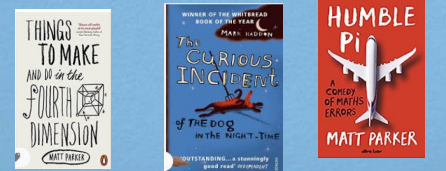
# Subject: Maths

## Learning Cycle: 7, 8, 9 and 10

### Key Vocabulary

Learn these using the suggested activities in your vocabulary books

Things To Make And Do In The Fourth Dimension by Matt Parker  
The Curious Incident Of The Dog In The Night-Time by Mark Haddon  
Humble Pi by Matt Parker



### Recommended Reading

### Useful Research Sites

#### Symmetries and Constructions

##### Tier 2

Reflection, rotation, construction, symmetry, arc, vertical, horizontal

##### Tier 3

Polygon, perpendicular, bisector

#### Using Averages, Range and Relationships to Describe Data

##### Tier 2

Data, average, range, spread, frequency, compare, statistics, scale, axis, interpret, Mean, median, mode,

##### Tier 3

bimodal, midpoint, scatter graph, correlation, outlier, central tendency

#### Multiples, Factors and Primes

##### Tier 2

Decomposition, product

##### Tier 3

Multiple, factor, prime, Venn diagram, integer, index form, LCM, HCF

#### Linear Equations

##### Tier 2

Linear, Function, rearranging, variable.

##### Tier 3

Coefficient, intercept, straight line graph, equation, gradient

<https://corbettmaths.com/>

and Complete Maths

#### Extend

Maths talks to blow your mind -

[https://www.ted.com/playlists/189/math\\_talks\\_to\\_blow\\_your\\_mind](https://www.ted.com/playlists/189/math_talks_to_blow_your_mind)

UKMT Papers - Ask your class teacher about these

Have a look at the website <https://parallel.org.uk/>

PREP	Topic	Assignment	Completed?
Practice Extending	Symmetries and Constructions	'Complete Maths' weekly retrieval quiz to practice your fluency and extend your problem-solving skills	
Practice Extending	Symmetries and Constructions Using Averages, Range and Relationships to Describe Data	'Complete Maths' weekly retrieval quiz to practice your fluency and extend your problem-solving skills	
Practice Extending	Using Averages, Range and Relationships to Describe Data	'Complete Maths' weekly retrieval quiz to practice your fluency and extend your problem-solving skills	
Practice Extending	Using Averages, Range and Relationships to Describe Data Multiples, Factors and Primes	'Complete Maths' weekly retrieval quiz to practice your fluency and extend your problem-solving skills	
Practice Extending	Multiples, Factors and Primes	'Complete Maths' weekly retrieval quiz to practice your fluency and extend your problem-solving skills	
Practice Extending	Multiples, Factors and Primes Linear Equations	'Complete Maths' weekly retrieval quiz to practice your fluency and extend your problem-solving skills	

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Curriculum link with Product design

### Instruments of the Orchestra

- Orchestra
- Strings
- Brass
- Woodwind
- Pitched Percussion
- Unpitched Percussion
- Conductor
- Texture
- Timbre

### Advanced Rhythm

- Regular Rhythm
- Syncopation
- Samba
- Cross-Rhythm
- Groove
- Break
- Backbeat
- Bateria

### Key Vocabulary

### Websites and Resources to develop your understanding of

<https://www.bbc.co.uk/programmes/articles/4GrPtrzVNzpJ4vmrr4w5Y2j/listen-to-the-ten-pieces-music>

The BBC 10 pieces will introduce you to different styles of music that we will encounter in this term and beyond.

<https://www.youtube.com/watch?v=eFU9G3vBWbw>

Carnival in Brazil

<https://insidetheorchestra.org/2020/06/10/explore-the-instruments-of-the-orchestra/>

This website allows you to hear all the different instruments in the orchestra.

<https://www.musictheory.net>

This website is perfect for all your note lengths, rests, symbols.

### Recommended listening

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Year 8

### Touch Rugby:

1. Possession
2. Range of pass
3. Drift Defence
4. Touch Tackle
5. Go forward

### Concept Curriculum:

1. Awareness of integrity
2. Consideration of self and others
3. Being integral
4. Being a good friend

### OAA:

1. Teamwork
2. Problem solving
3. Communication – verbal and non verbal
4. Orientation

**Key Vocabulary**

## Websites and Resources to develop your understanding of

Touch Rugby:

[https://youtu.be/v7e8Y8g3sGY?si=qhYzM7AIdaBrK\\_Ek](https://youtu.be/v7e8Y8g3sGY?si=qhYzM7AIdaBrK_Ek)

OAA:

<https://www.youtube.com/watch?v=bUm2JUeFNh4>

Touch Rugby:

<https://www.bbc.co.uk/newsround/av/34218159>

OAA:

BBC Bitesize

**KS3 books  
and online  
resources**



# Religion, Philosophy & Ethics

## Resources to support Learning Cycle 2: The Holocaust

- Anti-Semitism
- Bystander
- Final Solution
- Genocide
- Ghetto
- Liberation
- Nazi

### Key Vocabulary

Learn these to  
support your  
learning in lessons

### Websites and Resources to develop your understanding

**The Diary of a Young Girl** by  
Anne Frank

**The Hiding Place** by Corrie Ten  
Boom

**Journeys: Children of the  
Holocaust Tell their Stories** by  
Wendy Whitworth

### BBC Bitesize: The Holocaust

<https://www.bbc.co.uk/bitesize/articles/zt48dp3#zxpvywx>

### BBC Newsround: What was the Holocaust?

<https://www.bbc.co.uk/newsround/16690175>

### Jewish Responses to the Holocaust

<https://www.bbc.co.uk/bitesize/guides/zqjqrwx/revision/3>

### KS3 Recommended reading

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**Year 8 Religion, Philosophy & Ethics**



PREP	Topic	Assignment	Completed?
Practice	Energy	Knowledge organiser/Glossary	
Pre - Learning	Energy	What are the 9 energy stores	
Practice	Energy	Kerboodle quiz	
Pre-Learning	Energy	Energy stores and transfers flow charts .	
Extending	Energy	Carousel learning	
Practice	Energy	Knowledge organiser/Glossary	

1. Energy
2. Conduction
3. Convection
4. Renewable
5. Non - renewable

## Recommended Reading

1. BBC bitesize KS3 energy  
<https://www.bbc.co.uk/bitesize/topics/zc3g87h>
2. <https://www.youtube.com/watch?v=JGwcDCeYRYo>

## Key Vocabulary

Learn these using the suggested activities in your vocabulary books.

<https://www.olivehackney.com/wp-content/uploads/2020/04/Year-5-Reading-Energy-and-Population-Comprehension-with-Answers.pdf>

## Useful Research Sites

PREP	Topic	Assignment	Completed?
Practice	Biological processes	Knowledge organiser/Glossary	
Practice	Biological processes	Carousel learning	
Practice	Biological processes	Carousel learning	
Extending	Biological processes	Knowledge organiser/Glossary	
Practice	Biological processes	Carousel learning	
Extending	Biological processes	Microorganism in food production	

1. Photosynthesis
2. Chlorophyll
3. Respiration
4. Deficiency
5. Fermentation

### Recommended Reading

1. BBC bitesize KS3 the Biological processes.

<https://www.bbc.co.uk/bitesize/courses/zdcg3j6>

### Key Vocabulary

Learn these using the suggested activities in your vocabulary books

1. An introduction to the Photosynthesis  
<https://www.youtube.com/watch?v=DfbR2ljC80o>
2. Respiration  
<https://www.youtube.com/watch?v=6Je1WoO6ISo>

### Useful Research Sites

PREP	Topic	Assignment	Completed?
Practice	Past healthy changes	Complete week 5 in booklet and revise 5A vocabulary on knowledge organiser.	
Practice	Future healthy actions	Complete week 6 in booklet and revise 6A vocabulary on knowledge organiser.	
Practice	Healthy lifestyles	Revise your vocabulary from the topic. Use Quizlet to help you to practice.	
Practice	Using technology	Complete week 1 in booklet and revise 1A vocabulary on knowledge organiser.	
Practice	Listening to music	Complete week 2 in booklet and revise 2A vocabulary on knowledge organiser.	

Para llevar una vida sana – **to keep fit**

Juego – **I play**

Hago – **I do**

Se deber comer – **you must eat**

Hay que – **You must avoid**

Je le trouve – **I find it**

### Recommended Reading

[www.wordreference.com](http://www.wordreference.com)

[www.duolingo.com/](http://www.duolingo.com/)

[www.quizlet.com](http://www.quizlet.com)

[www.memrise.com](http://www.memrise.com)

### Key Vocabulary

Learn these using the suggested activities in your vocabulary books

**Little People, Big Dreams, Frida Kahlo / Shakira**  
**Aventura en Yucatan**  
 by Jaime Corpas  
**Esperanza Rising**  
 by Pam Munoz Ryan  
**La Frontera**  
 by Alfredo Alva

### Useful Research Sites

Spring Term: February – March 2024

Year 8