## Year 9 Home Learning Support Document

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

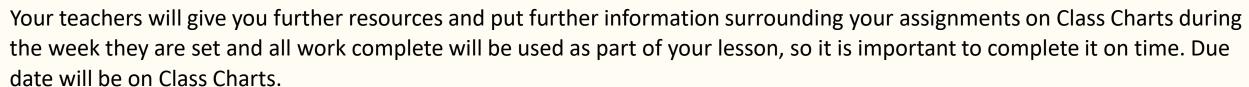
All PREP Learning tasks are essential to your learning in lessons and revolve around four principles:

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

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

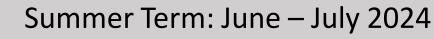
**Extend** – helping you to secure knowledge or skills

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



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.







## Subject: Computer Science

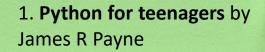
### Resources to support lessons

Variable, data type, iteration, operator, syntax error, interpreter, execute, if-else, algorithm

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**Key Vocabulary** 

Websites and Resources to develop your understanding of



- 2. A beginners guide to Coding by Mark Scott
- 3. **CoderDojo Nano** by Mark Hatter

Codecademy Python 3 course:

https://www.codecademy.com/learn/learn-python-3

What is Python? Why Python is So Popular? – YouTube video

https://www.youtube.com/watch?v=Y8Tko2YC5hA

Using Python for web development

https://www.w3schools.com/django/django in tro.php

and online resources

Summer term: June – July 2024





### Subject : Design and Technology

## Resources to support lessons

- 1. Plan of Manufacture
- 2. Template
- 3. CAMs
- 4. Gears
- 5. Evaluation

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**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/designtechnology?fbclid=lwAR3J6XQzHL4mUbEg1PXSJFpsxrxtgQ-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



Summer term: June - July 2024

**Year 9 - Sweet Dispenser** 



### Subject : Design and Technology

### Resources to support lessons

- 1. Polymer
- 2. Thermoplastic
- 3. Thermoset
- 4. Plastic Memory
- 5. Solvent Cement
- 6. Mechanism
- 7. Assembly
- 8. Evaluation



**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

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** 



Summer term: June - July 2024

**Year 9 Design & Technology – Clocks** 



## Subject: English

## Learning Cycle 4: Poetry

PREP	Topic	Assignment	Completed?
Reading	Reading	Task - Please ensure you have a reading book for your reading for pleasure lessons.	
Practice	Poetry	Task – Please complete the research task as directed by your teacher.	
Practice/ Ext ending	Poetry	Task –Make a revision quiz for a poem you have studied	
Practice/ Extending	Poetry	Task – make revision flashcards for key quotes	
Practice	Poetry	Task - Complete the analytical writing task as directed by your teacher	
Practice	Poetry	Complete the revision tasks as directed by your teacher for your in-class essay	
Reading	Reading	Please make sure you have a book for the summer and try to complete the reading challenge!	

□Omniscient
□Corrupt
□Tyrant/Tyrannical
□Cynical
□Dominate
□Superior
□Sublime
□Pervasive
□Malevolent

## Recommended Reading

- https://www.bbc.co.uk/bitesize/topics/zprysg8
- https://www.douglaswise.co.uk/blog/ aga-power-conflict-reading-booklet
- https://blogs.bl.uk/english-and-drama/2014/03/wilfred-owen-the-poetry-is-in-the-pity.html

#### **Key Vocabulary**

Learn these using the suggested activities in your vocabulary books

✓ Please see the recommendations on the reading journey

Useful Research
Sites



### MFL – French

## Learning Cycle: The Paris Olympics

PREP	Topic	Assignment	Completed?
Practice	People/Places/ Education	As directed by your teacher. Revise your vocabulary from the topics. Use Quizlet to help you to practice.	
Practice	People/Places/ Education	As directed by your teacher. Revise your vocabulary from the topics. Use Quizlet to help you to practice.	
Practice	Describing the Olympics	Learn key question words (15) and complete further research as directed by your teacher	
Practice	Describing the Olympic village + accommodation	Learn accommodation words (15) and describe accommodation	
Practice	Describing Olympic athletes and kits	Describe your favourite athlete + kit	
Practice	Planning a future trip to the Olympics	Learn weather vocab (15) and future trip comprehension	

Les Jeux Olympiques – the Olympics

Les athlètes – the athletes

Le logement – the accommodation

Il y a – there is

II/elle porte - he/she wears

Je vais assister – I'm going to attend

Ce sera – it will be

# Recommended Reading

www.wordreference.com

www.duolingo.com/

www.quizlet.com

www.memrise.com

#### **Key Vocabulary**

Learn these using the suggested activities in your vocabulary books

Les vacances du Petit Nicholas by Rene Goscinny Le Petit Prince by Antoine de Saint-Exupéry (available in French and English)

Useful Research
Sites

Summer Term: June – July 2024





## Subject: Geography

## Learning Cycle 4 - Coasts

PREP	Topic	Assignment	Completed?
Revise	Coasts	Revise the key terms from the coasts knowledge organiser	
Prep	Coasts	Read this article about Durdle Door and write a paragraph about the future of Durdle Door https://www.dorset.live/news/d orset-news/dorsets-durdle- door-doomed-collapse- 5616625	
Pre-learn	Coasts	Research landforms along the Jurassic coast and come to lesson knowing examples of different landforms along the Jurassic Coast	

- 1. Hydraulic Action
- 2. Coasts
- 3. Deposition
- 4. Erosion
- 5. Longshore Drift

# Recommended Reading

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

#### **Key Vocabulary**

Learn these using the suggested activities in your vocabulary books

https://www.rgs.org/schools/resourcesfor-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



Summer Term: June - July 2024



## Subject: History

# Learning Cycle 4: How was South Africa Transformed by Empire?

PREP	Торіс	Assignment	Completed?
Practice	Early Colonisation	Complete Microsoft forms quiz assigned by class teacher	
Practice	Transformation of South Africa	assigned by class teacher	

- 1. Colonistaion
- 2. Boer
- 3. Zulu
- 4. Migration
- 5. Apartheid

# Recommended Reading

- 1. National Archives:
  - https://www.nationalarchives.gov .uk/education/resources/aparthei
- 2. Encyclopedia Britannica: https://www.britannica.com/plac e/South-Africa/British-occupationof-the-Cape

#### **Key Vocabulary**

Learn these using the suggested activities in your vocabulary books

- 1. BBC Bitesize
   https://www.bbc.co.uk/bitesize/a
   rticles/zx8sf82
- 2. Spartacus Education
  https://spartacuseducational.com/British Empire.h
  tm

Useful Research
Sites

Summer term: June - July 2024 Year 9



## Subject: Maths

## Learning Cycle: 12, 13, 14 and 15

PREP	Topic	Assignment	Completed?
Practice	Pythagoras	'Complete Maths' weekly retrieval quiz to practice	
Extending	Standard form	your fluency and extend your problem-solving skills	
Practice	Standard form	'Complete Maths' weekly retrieval quiz to practice	
Extending	Geometric Sequences	your fluency and extend your problem-solving skills	
Practice	Standard form	'Complete Maths' weekly retrieval quiz to practice	
Extending	Geometric Sequences	your fluency and extend your problem-solving skills	
Practice	Geometric Sequences	'Complete Maths' weekly retrieval quiz to practice	
Extending	Compound Units	your fluency and extend your problem-solving skills	
Practice	Compound Units	'Complete Maths' weekly retrieval quiz to	
Extending	Mathematical relationships	practice your fluency and extend your problem-solving skills	
Practice	Compound Units	'Complete Maths' weekly retrieval quiz to practice	
Extending	Mathematical relationships	your fluency and extend your problem-solving skills	
Practice	Mathematical relationships	'Complete Maths' weekly retrieval quiz to practice	
Extending	Mathematical relationships	your fluency and extend your problem-solving skills	

#### Standard form and the number system

Standard form, index, root, convert, integer, rational, irrational, real, ordinary form, place value

#### **Geometric Sequences**

Exponential, power, indices, index, oscillate periodic, geometric, multiplicative ratio/common ratio, growth, decay

#### **Compound Units**

Compound unit, compound measure, density, mass, volume, unitary, proportion

#### **Mathematical Relationships**

Variable, Quadratic, Algebra, Substitute, Expression, Equation, Roots, Parabola, Graph, Intercept, Max/Min Value, Piece-wise

#### **Key Vocabulary**

Learn these using the suggested activities in your vocabulary books

by Simon Singh
The Man Who Counted
by Julio-Cesar de Mello
eSouza
Math Girls by Hiroshi



Yuki





#### https://corbettmaths.com/

and Complete Maths

#### **Extend**

Maths talks to blow your mind -

https://www.ted.com/playlists/189/math\_talks\_to\_b low\_your\_mind

**UKMT Papers** - Ask your class teacher about these Have a look at the website <a href="https://parallel.org.uk/">https://parallel.org.uk/</a>

Recommended Reading

Useful Research
Sites

Summer term: June - July 2024

Curriculum Link with Sport



## Subject: Music

## Resources to support lessons

#### Hip-Hop

- Chord progression
- Root position
- Ground Bass
- Shakespeare
- FL Studio
- Rap
- Counter-melody

#### Game Music

- 8-Bit
- FL Studio
- Theme
- Variations
- Texture



Websites and Resources to develop your understanding of

https://www.youtube.com/watch?v=
ort7ZLY-3zo

Getting started with FL Studio

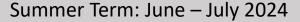
https://www.musictheory.net

This website is perfect for all your note lengths, rests, symbols as well as all the pitches you'll learn.

https://resources.avid.com/SupportFiles/ Sibelius/2020.1/Sibelius Reference.pdf

Extensive support for Sibelius that will be used all year

Recommended listening



## Subject: Physical Education

## Resources to support lessons

#### Tennis:

- 1. Serve
- 2. Volley
- 3. Topspin
- 4. Forehand and backhand drive
- Scoring system Love, 15, 30, 40, Game, Deuce, Advantage

#### **Ultimate Frisbee:**

- 1. Forehand Passing
- 2. Stacking
- 3. Cutting
- 4. Pivoting



**Key Vocabulary** 

Websites and Resources to develop your understanding of

#### Tennis:

Andy Murray: King of Queens

https://www.bbc.co.uk/iplayer/episode/ m000kbw3/tennis-queens-rewind-1andy-murray-king-of-queens

#### Ultimate Frisbee:

https://www.youtube.com/watch?v=Un
NUEvs2Ev0

#### Tennis:

Rules of tennis:

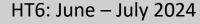
https://olympics.com/en/news/tennisrules-regulations-how-to-play-basics

#### **Ultimate Frisbee:**

How to play:

https://usaultimate.org/youth/how-to-play/

KS3 books and online resources





# Religion, Philosophy & Ethics

# Resources to support Learning Cycle 3: Life after Death

- Afterlife
- Ghost
- Heaven
- Hell
- Humanism
- Judgment
- Reincarnation

Key Vocabulary
Learn these to
support your
learning in lessons

Websites and Resources to develop your understanding

- Case for Heaven (Young Reader's Edition): Investigating What Happens After Our Life on Earth by Lee Strobel
- Heaven is for Real A Little
   Boy's Astounding Story of His
   Trip to Heaven and Back as
   told by Colton Burpo
- What happens when we die?
   By Chris Morphew

BBC Bitesize: What happens when we die?

https://www.bbc.co.uk/bitesize/articles/zbap7nb

BBC Bitesize: What does Christianity say about life after death?

https://www.bbc.co.uk/bitesize/guides/zgqjgdm/revision/2

BBC Bitesize: What does Hinduism teach about life after death?

https://www.bbc.co.uk/bitesize/guides/zx3pjty/revision/3

Life after death belief among nonreligious people

https://www.bbc.co.uk/bitesize/guides/zddbqp3/revision/2

KS3 Recommended reading

Summer Term: June – July 2024

Year 9 Religion, Philosophy & Ethics



## Subject: Science

## Learning Cycle 3, Biodiversity

PREP	Topic	Assignment	Completed?
Practice	Biodiversity	Knowledge organiser/Glossary	
Practice	Biodiversity	Carousel learning	
Practice	Biodiversity	Knowledge organiser/Glossary	
Practice	Biodiversity	Carousel learning	
Practice	Biodiversity	Knowledge organiser/Glossary	
Practice	Biodiversit y	Carousel learning	

- 1. Habitat
- 2. Population
- 3. Biodiversity
- 4. Adaptation
- 5. Carbon cycle

# Recommended Reading

- Competition between organisms, (audio clip) https://www.bbc.co.uk/b itesize/guides/z9pd6yc/a udio
- 2. Adaptations
  <a href="https://www.youtube.co">https://www.youtube.co</a>
  <a href="mailto:m/watch?v=tC-">m/watch?v=tC-</a>
  <a href="https://www.youtube.co">u8xcZYSM</a>

#### **Key Vocabulary**

Learn these using the suggested activities in your vocabulary books

- Biodiversity
   https://www.bbc.co.uk/bitesize/guides/z9pd6yc/revision/1
- Abiotic factors https://www.bbc.co.uk/bi tesize/guides/z9pd6yc/rev ision/2

Useful Research
Sites

Summer term: June – July 2024



## Subject: Science

# Learning Cycle 3, Structure & Bonding

PREP	Topic	Assignment	Completed?
Practice	Structure & Bonding	Carousel learning	
Practice	Structure & Bonding	Knowledge organiser/Glossary	
Practice	Structure & Bonding	Carousel learning	
Practice	Structure & Bonding	Knowledge organiser/Glossary	
Practice	Structure & Bonding	Carousel learning	
Practice	Structure & Bonding	Knowledge organiser/Glossary	

- 1. Metallic bond
- 2. Covalent Bond
- 3. Ionic Bond
- 4. Electrostatic attraction
- 5. Intermolecular force

## Recommended Reading

- 1. Bonding with atoms
  <a href="https://www.youtube.com/w">https://www.youtube.com/w</a>
  atch?v=kNFLsrSpAtA
- https://www.youtube.com/wat
  ch?v=cUKifjMhXRo
- 2. Intermolecular

forces <a href="https://www.youtube.co">https://www.youtube.co</a> m/watch?v=9YwdeEDrfPI

#### **Key Vocabulary**

Learn these using the suggested activities in your vocabulary books

- 1. Ionic Bonding
  <a href="https://www.bbc.co.uk/bitesize/guides/ztc6w6f/revision/1">https://www.bbc.co.uk/bitesize/guides/ztc6w6f/revision/1</a>
- 2. Metals and alloys

https://www.bbc.co.uk/bitesize/guides/ztgy6yc/revision/1

3. Covalent Structures

https://www.bbc.co.uk/bitesize/guides/zgq8b82/revision/1

https://www.bbc.co.uk/bitesize/guides/z373h39/revision/1

Useful Research
Sites

Summer term: June – July 2024



## Subject: Science

# Learning Cycle 3, Conservation and dissipation of energy

PREP	Topic	Assignment	Completed?
Practice	Energy	Knowledge organiser/Glossary	
Practice	Energy	Carousel learning	
Practice	Energy	Knowledge organiser/Glossary	
Practice	Energy	Carousel learning	
Practice	Energy	Knowledge organiser/Glossary	
Practice	Energy	Carousel learning	

- 1. Energy
- 2. Conservation
- 3. Dissipation
- 4. Efficiency
- 5. Renewable

# Recommended Reading

- 1. Types of energy stores <a href="https://www.bbc.co.u">https://www.bbc.co.u</a> <a href="k/bitesize/guides/z8hsrwx/video">k/bitesize/guides/z8hsrwx/video</a>
- 2. Energy
  <a href="https://www.youtube.com/watch?v=H6D\_Vi">https://www.youtube.com/watch?v=H6D\_Vi</a>
  W0Ch4

#### **Key Vocabulary**

Learn these using the suggested activities in your vocabulary books

- 1. Energy stores
  <a href="https://www.bbc.co.uk/bi-tesize/guides/z8hsrwx/revis">https://www.bbc.co.uk/bi-tesize/guides/z8hsrwx/revis-ion/3</a>
- 2. Conservation of energy
  <a href="https://mmerevise.co.uk/g">https://mmerevise.co.uk/g</a>
  <a href="mailto:cse-physics-revision/conservation-of-energy/">cse-physics-revision/conservation-of-energy/</a>

Useful Research
Sites

Summer term: June – July 2024



## MFL – Spanish

## Learning Cycle: Big sporting events

PREP	Topic	Assignment	Completed?
Practice	People/Places/ Education	As directed by your teacher. Revise your vocabulary from the topics. Use Quizlet to help you to practice.	·
Practice	People/Places/ Education	As directed by your teacher. Revise your vocabulary from the topics. Use Quizlet to help you to practice.	
Practice	Describing the Euros	Learn key question words (15) and complete further research as directed by your teacher	
Practice	Describing the Spanish team's accommodation	Learn accommodation words (15) and describe accommodation	
Practice	Describing the Spanish team and kits	Describe your favourite footballer + kit	
Practice	Planning a future trip to the Euros	Learn weather vocab (15) and future trip comprehension	

La Eurocopa – the Euros

Los fútbolistas – the footballers

El alojamiento – the accommodation

Hay - there is

Lleva – he/she wears

Voy a asistir - I'm going to attend

Será – it will be

# Recommended Reading

www.wordreference.com

www.duolingo.com/

www.quizlet.com

www.memrise.com

#### **Key Vocabulary**

Learn these using the suggested activities in your vocabulary books

The Fountains of Silence

by Ruta Sepetys

**Furia** 

by Yamile Saied Méndez

The Distance Between Us (Young Readers Edition)

by Reyna Grande

Useful Research
Sites

Summer Term: June – July 2024

