

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

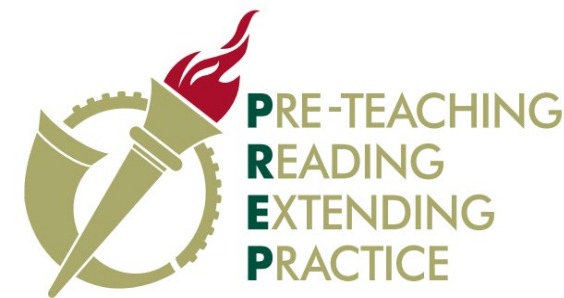
Reading- helping you to build your knowledge

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.



Summer term: June – July 2024

Art Challenge

Art Challenge is a chance for you keen artist to find out more and try something creative out. It will not be marked but we would love to see what you create and celebrate your investigation with you. A new challenge will be set each half term to inspire you beyond the lessons!

Due: Week 6

This term:

Street Art!



Find Out

- Have a look at our Pinterest board full of different Street Art. You might want to find out about where the art has been placed.
- Go to www.Pinterest.co.uk search for the user 'Artoothill' and the board Art Challenge.

Try out:

- Design your own street art to share schools PRIDE ethos .
- Be creative in how you make this, you can use digital art, hand drawing or painting.
- Think about the message you could send to visitors, staff and pupils with your art.

Share

- Take a photo of what you have made and email this to your teacher.

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

Key Vocabulary

Websites and Resources to develop your understanding of

1. **Python for teenagers** by James R Payne
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_intro.php

KS3 books and online resources

Summer Term: June – July 2024

Year 8 – Introduction to python programming



1. Timbers
2. Coping saw
3. Steel rule
4. Soldering iron
5. Bulb



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=IwAR3J6XQzHL4mUbEg1PXSJFpsrxrtgQ-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



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
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- **Oak Academy:**
https://teachers.thenational.academy/subjects/design-technology?fbclid=IwAR3J6XQzHL4mUbEg1PXSJFpsrxrtgQ-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



PREP	Topic	Assignment	Completed?
Reading	Animal Farm	Task – Please make sure you have a reading for pleasure book and are reading for at least 15 minutes every day.	
Practice	Animal Farm	Task – Please complete the analytical writing task as directed by your teacher	
Reading	Animal Farm	Task – Reading your book - Please be prepared to complete a book review on your chosen book.	
Practice	Animal Farm	Task – Select a piece of writing you have completed in class and redraft it.	
Reading	Animal Farm	Task – Reading your book - Please be prepared to complete a book review on your chosen book.	
Extending		Task – Please complete the creative writing task as directed by your teacher	
Reading		Task – Do you have a book for the holidays? Make sure you have a reading book and that you know what your reading target is.	

- Rhetoric
- Persuasion
- Propaganda
- Manipulation
- Omniscient
- Cynical
- Communism
- Cyclical
- Rebellion

Recommended Reading

- <https://www.bbc.co.uk/bitesize/topics/zqp86fr>
- <https://classroom.thenational.academy/search>

Key Vocabulary

Learn these using the suggested activities in your vocabulary books



1.

Please see unit 3 on your Reading Journey

Useful Research Sites



PREP	Topic	Assignment	Completed?
Practice	Describing normal holidays	Complete week 1 in booklet and revise 1A vocabulary on knowledge organiser.	
Practice	Giving your opinion on holidays	Complete week 2 in booklet and revise 2A vocabulary on knowledge organiser.	
Practice	Talking about past holidays	Complete week 3 in booklet and revise 3A vocabulary on knowledge organiser.	
Practice	Talking about past holidays	Complete week 4 in booklet and revise 4A vocabulary on knowledge organiser.	
Practice	Planning future holidays	Complete week 5 in booklet and revise 5A vocabulary on knowledge organiser.	
Practice	Describing your ideal holidays	Complete week 6 in booklet and revise 6A vocabulary on knowledge organiser.	

Je vais – I go
J'aime visiter – I like to visit
J'ai voyagé – I travelled
J'ai fait – I did
C'était – it was
Je vais aller – I'm going to go
Je voudrais visiter – I'd like to visit

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
- www.duolingo.com/
- www.quizlet.com
- www.memrise.com

Useful Research Sites

Summer Term: June – July 2024

Year 8

Subject: Geography

Learning Cycle 4 – Antarctica + Superpowers

PREP	Topic	Assignment	Completed?
PREP	Superpowers	<p>Read ahead the following article about Superpowers and create a summary page in our books about what makes a powerful country</p> <p>https://www.ndtv.com/world-news/these-are-the-worlds-most-powerful-countries-know-where-india-stands-4976116#:~:text=Global%20power%20is%20characterized%20by,2024%20US%20News%20Power%20Rankings.</p>	
WATCH	India and Superpowers	<p>Watch the following talk and create 10 questions about the video:</p> <p>https://www.youtube.com/watch?v=lsgTt5tdww</p>	

1. Adaptation
2. Superpowers
3. Hostile
4. Extreme Weather
5. Antarctica

Key Vocabulary

Learn these using the suggested activities in your vocabulary books

<https://www.bas.ac.uk/science/science-and-society/education/antarctic-factsheet-geographical-statistics/>

<https://www.secretatlas.com/explorers-club/antarctica/50-interesting-facts-2/>

<https://iaato.org/>

Recommended Reading

1. <https://education.nationalgeographic.org/resource/antarctica/>
2. <https://www.theguardian.com/artanddesign/gallery/2024/mar/25/changes-in-antarcticas-glaciers-and-ice-sheets-in-pictures>

Useful Research Sites

Subject: History

Learning Cycle 5: **How did the interwar years have a lasting impact?**

PREP	Topic	Assignment	Completed?
Practice	Trench Warfare	Complete the Microsoft Forms Quiz on WWII	
Practice	Impact of WWI	Complete the Microsoft Forms Quiz on the Home Front	

1. Blitzkrieg
2. Home Front
3. Blitz Spirit
4. ARP
5. Rationing

Key Vocabulary

Learn these using the suggested activities in your vocabulary books

1. John D Clare Webiste
<https://www.johndclare.net/wwii1.htm>

Recommended Reading

1. Home Front National Archives
<https://www.nationalarchives.gov.uk/education/resources/home-front/>
2. Home Front WWII
<https://www.bbc.co.uk/bitesize/articles/z7cgg7h#:~:text=Conscription%2C%20when%20men%20were%20required,known%20as%20the%20Home%20Front.>

Useful Research Sites

Subject: Maths

Learning Cycle: 12, 13, 14 and 15

PREP	Topic	Assignment	Completed?
Practice Extending	Accuracy with perimeter, area and volume Ratio	'Complete Maths' weekly retrieval quiz to practice your fluency and extend your problem-solving skills	
Practice Extending	Ratio Algebraic expressions	'Complete Maths' weekly retrieval quiz to practice your fluency and extend your problem-solving skills	
Practice Extending	Ratio Algebraic expressions	'Complete Maths' weekly retrieval quiz to practice your fluency and extend your problem-solving skills	
Practice Extending	Algebraic expressions Translations, rotations and reflections	'Complete Maths' weekly retrieval quiz to practice your fluency and extend your problem-solving skills	
Practice Extending	Algebraic expressions Translations, rotations and reflections	'Complete Maths' weekly retrieval quiz to practice your fluency and extend your problem-solving skills	
Practice Extending	Translations, rotations and reflections Diagrams and constructions	'Complete Maths' weekly retrieval quiz to practice your fluency and extend your problem-solving skills	
Practice Extending	Diagrams and constructions	'Complete Maths' weekly retrieval quiz to practice your fluency and extend your problem-solving skills	

Accuracy with perimeter, area and volume

Tier 2

Decimal place, equal, estimate, approximate, less than, greater than, area, surface area, volume, formula, cylinder

Tier 3

Significant figure, inequality, circumference, diameter, radius, Pi, perimeter, compound shape, prism

Ratio Fraction, ratio, share, quantity, parts, operation, total, divide, multiply, simplify, lowest terms, reduce, cancel

Algebraic expressions

Expand, collect, term, variable, expression, factor, represent, simplify, like, common, algebra, identity, coefficient, indices, factorise

Translations, Rotations and reflections

Coordinate, Vector, Column, translation, y-axis, x-axis, reflection, rotation, transformation, origin, direction, Cartesian Coordinate, enlargement

Diagrams and constructions

Bearing, Scale factor, Similar (shape), Enlargement

<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

UKMT Papers - Ask your class teacher about these

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

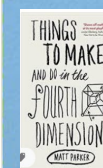
Key Vocabulary

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

Summer Term: June - July 2024

Year 8

Curriculum link with Product design



Advanced Notation

- Treble Clef
- Bass Clef
- Staff
- Time Signatures
- Key Signatures
- Accidentals
- F major
- G major
- Ties
- Middle C
- Mnemonics

Advanced Texture & Timbre

- Sibelius
- Texture
- Timbre
- Arranging
- Dynamic symbols
- Legato
- Staccato
- Melody & Accompaniment

Key Vocabulary

Websites and Resources to develop your understanding of

<https://www.youtube.com/watch?v=rEGOiHjqO9w>

Rachmaninov's Piano Concerto No. 2

https://www.youtube.com/watch?v=pBM-yXo0TM4&list=PLhCR_8aS9jOPvy871jRUESB0EdgOCD8s1

Getting started with Sibelius

<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

Volleyball

1. Serving
2. Dig
3. Set
4. Spike
5. Block
6. Positions

Concept Curriculum:

1. Screen Time vs Activity Level
2. Physical Health and Benefits
3. Enjoyment and habits
4. Physical literacy

Tennis

1. Forehand
2. Backhand
3. Serving
4. Volleying
5. Lob
6. Smash

Key Vocabulary

Websites and Resources to develop your understanding of

Volleyball

<https://www.nottinghamrocketsvolleyball.co.uk/>

<https://www.bbc.co.uk/bitesize/guides/z8spfrd/revision/4>

<https://www.bbc.co.uk/bitesize/guides/z8spfrd/revision/4>

<https://www.volleyballengland.org/>

Tennis

<https://www.lta.org.uk/fan-zone/international/rothesay-open-nottingham/>

<https://www.lta.org.uk/>

Volleyball

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

Tennis

<https://www.youtube.com/watch?v=1PDas6OjAk>

KS3 books and online resources

Religion, Philosophy & Ethics

Resources to support Learning Cycle 4: Philosophical Thought

- **Consequence**
- **Deontology**
- **Determinism**
- **Free Will**
- **Moral Dilemma**
- **Scepticism**
- **Utilitarianism**

Key Vocabulary

Learn these to support your learning in lessons

Websites and Resources to develop your understanding

- **Philosophy and Ethics (KS3 Knowing Religion)** by Robert Orme
- **Philosophy for Beginners**, Usborne Publishing
- **Big Ideas for Curious Minds** by The School of Life

The Philosophy Foundation

<https://www.philosophy-foundation.org/enquiries/age:39>

BBC Bitesize: Moral, Ethics & Philosophy

<https://www.bbc.co.uk/bitesize/topics/zkdk382>

BBC Bitesize: An Introduction to the Philosophy of Religion

<https://www.bbc.co.uk/bitesize/topics/zbbdnrd>

KS3 Recommended reading

Summer Term: June – July 2024

Year 8 Religion, Philosophy & Ethics

PREP	Topic	Assignment	Completed?
Practice	Metals	Knowledge organiser/Glossary	
Practice	Metals	Carousel learning	
Extending	Metals	Research: why do fireworks have different colours?	
Practice	Metals	Knowledge organiser/Glossary	
Practice	Metals	Carousel learning	
Practice	Metals	Knowledge organiser/Glossary	

1. Metal
2. Unreactive
3. Reactivity series
4. Displacement
5. Ore

Recommended Reading

1. How is Iron extracted?
<https://www.youtube.com/watch?v=fxBlgbRT8fw>
2. Displacement reactions
<https://www.youtube.com/watch?v=z4BDT5Xxqqk>

Key Vocabulary

Learn these using the suggested activities in your vocabulary books

1. An introduction to displacement reactions
<https://www.bbc.co.uk/bitesize/topics/zypsgk7/articles/z9sptrd>
2. Extracting metals
<https://www.bbc.co.uk/bitesize/topics/z3ksp4j/articles/zwdxtrd>

Useful Research Sites

PREP	Topic	Assignment	Completed?
Practice	Ecosystems	Knowledge organiser/Glossary	
Practice	Ecosystems	Carousel learning	
Extending	Ecosystems	Research: What an axolotl is and how it is adapted	
Practice	Ecosystems	Knowledge organiser/Glossary	
Extending	Ecosystems	Research an animal that hibernates or migrates.	
Practice	Ecosystems	Carousel learning	

1. Food chain
2. Producer
3. Prey
4. Food web
5. Decomposer

Recommended Reading

1. What is hibernation?
<https://www.bbc.co.uk/bitesize/articles/zg2shcw>
2. Ecosystems and habitats
<https://www.bbc.co.uk/bitesize/topics/zxhhvcw>

Key Vocabulary

Learn these using the suggested activities in your vocabulary books

1. Food chains
<https://www.youtube.com/watch?v=7AZCcf4Fv14>
2. How animals adapt to their environment
<https://www.youtube.com/watch?v=7AZCcf4Fv14>

Useful Research Sites

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Practice	Describing normal holidays	Complete week 1 in booklet and revise 1A vocabulary on knowledge organiser.	
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Voy – I go
Me gusta visitar – I like to visit
Viajé – I travelled
Hice – I did
Fue – it was
Voy a ir – I'm going to go
Me gustaría visitar – I'd like to visit

Key Vocabulary

Learn these using the suggested activities in your vocabulary books

Recommended Reading

- www.wordreference.com
- www.duolingo.com/
- www.quizlet.com
- www.memrise.com

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

Summer Term: June – July 2024

Year 8