

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.

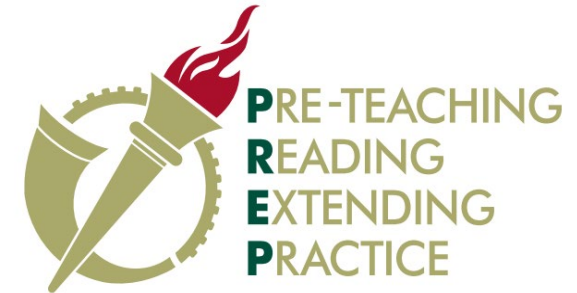
All PREP Learning tasks are essential to your learning in lessons and revolve around four principles:

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: April – May 2024

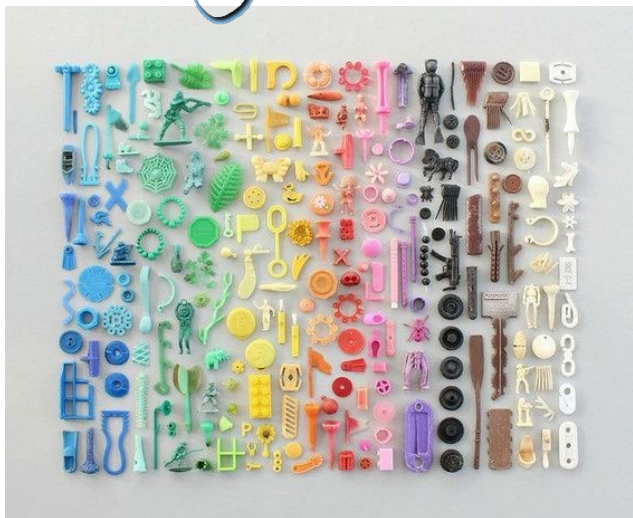
Art Challenge

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 5

**This term:
Recycled Art!**

Caroline South



Jane Perkins



Judith Selby Lang &
Richard Lang



Tony Cragg



Find Out

- Have a look at our Pinterest board full of art work made from recycled materials. Some are just arranged plastics which have been photographed and others have a glued together to make a collage.
- <https://pin.it/29Lw0Bf>

Try out:

- We now challenge you to recreate a work of art with recycled object
- First collect materials at home so that you can made something from plastics.
- Think about how you will arrange these elements to create an image.

Share

- Take a photo of what you have made and email this to your teacher or upload to teams!

Subject: Computer Science

Resources to support lessons

Machine-learning, artificial intelligence, boolean, CPU, RAM, open-source, closed-source, operating system, algorithm

Key Vocabulary

Websites and Resources to develop your understanding of

1. **Brown dogs and Barbers** by Karl Beacher
2. **When Computers Become Human: A Kid's Guide to the Future of Artificial Intelligence** by Kelly Lane

How computers work – Khan Academy
<https://www.khanacademy.org/computing/code-org/computers-and-the-internet>

Tom Scott AI -
<https://www.youtube.com/watch?v=jPhJkBuNnA>

CS Newbs – Hardware:
<https://www.csnewbs.com/ks3-themotherboard>

MKHBD AI Images -
<https://www.youtube.com/watch?v=0gNauGdOkro>

KS3 books and online resources

Summer Term: April - May 2024

Year 8 – Layers of computing systems



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=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



Summer Term: April – May 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=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. Sustainability
2. Block printing
3. Applique
4. Embellishment
5. Embroidery



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=IwAR3J6XQzHL4mUbEg1PXSJFpsrxtgQ-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: April – May 2024

Year 8

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.	

- 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 what clothes you wear.	Complete week 3 in booklet and revise 3A vocabulary on knowledge organiser.	
Practice	Narrating a past festival trip.	Complete week 4 in booklet and revise 4A vocabulary on knowledge organiser.	
Practice	Planning your future technology use	Complete week 5 in booklet and revise 5A vocabulary on knowledge organiser.	
Practice	Descriptions/Hobbies/Healthy lifestyles	As directed by your teacher. Revise your vocabulary from the topics. Use Quizlet to help you to practice.	
Practice	Descriptions/Hobbies/Healthy lifestyles	As directed by your teacher. Revise your vocabulary from the topics. Use Quizlet to help you to practice.	

Je porte – I wear
 J’aime porter – I like to wear
 Je suis allé – I went
 J’ai porté – I wore
 C’était – It was
 Je vais utiliser – I’m going to use
 Je vais faire – I’m going to do

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: April – May 2024

Year 8



Subject: Geography

Learning Cycle 4 – Antarctica

PREP	Topic	Assignment	Completed?
Reflect	Antarctica	Describe the location and the environmental features of Antarctica	
Revise and Learn	Antarctica	Revise the key terms from the Antarctica knowledge organizer in preparation for a quiz in lesson	
Extend	Wildfires	Read the article and create a revision mind map all about Antarctica https://education.nationalgeographic.org/resource/antarctica/	

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

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>

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/>

Useful Research Sites

Summer Term: April – May 2024
Year 8

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 The Roaring 20s	
Practice	Impact of WWI	Complete the Microsoft Forms Quiz on the League of Nations	
Extend	Meanwhile Elsewhere	Complete the Meanwhile Elsewhere task on May 4th Movement in China	

1. League of Nations
2. Speakeasy
3. Great Depression
4. Manchuria
5. Abyssinia

Recommended Reading

1. Spanish Civil War and Nottinghamshire
<https://www.worksopguardian.co.uk/news/worksop-spanish-civil-war-heroes-honoured-in-nottingham-2331521>
2. Failures of the League of Nations
<https://www.thenational.academy/teachers/programmes/history-secondary-ks3-l/units/why-did-the-league-of-nations-fail-a797/lessons/failures-in-the-1930s-65hpcd#slide-deck>

Key Vocabulary

Learn these using the suggested activities in your vocabulary books

1. BBC Bitesize Interwar Years
<https://www.bbc.co.uk/bitesize/guides/zbg4t39/revision/1>
2. Great Depression - Seneca
<https://senecalearning.com/en-GB/revision-notes/ks3/history/national-curriculum/16-1-2-the-great-depression>

Useful Research Sites

PREP	Topic	Assignment	Completed?
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	
Practice Extending	Multiples, Factors and Primes Linear Equations	'Complete Maths' weekly retrieval quiz to practice your fluency and extend your problem-solving skills	
Practice Extending	Linear Equations Accuracy with perimeter, area and volume	'Complete Maths' weekly retrieval quiz to practice your fluency and extend your problem-solving skills	
Practice Extending	Linear Equations Accuracy with perimeter, area and volume	'Complete Maths' weekly retrieval quiz to practice your fluency and extend your problem-solving skills	
Practice Extending	Accuracy with perimeter, area and volume Ratio	'Complete Maths' weekly retrieval quiz to practice your fluency and extend your problem-solving skills	

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

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

Tier 3

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

<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/>

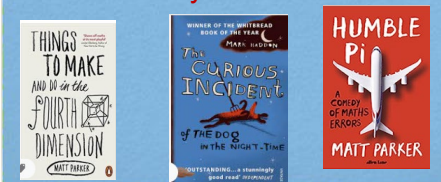
Key Vocabulary

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: April - May 2024

Year 8

Famous Mathematician Research Project

Euclid



Advanced Notation

- Treble Clef
- Bass Clef
- Stave
- 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 heard all the different instruments in the orchestra.

<https://www.musictheory.net>

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

Recommended listening

Cricket:

1. Bowling
2. Throwing
3. Catching
4. Batting

Concept Curriculum:

- Mental Health and Benefits
- Accept Who You Are
 - Ask for help
 - Care for others

Athletics

1. Sprint
2. Middle distance run
3. Long distance run
4. Throw
5. Jump

Key Vocabulary

Websites and Resources to develop your understanding of

Cricket:

Ultimate Cricket Superstars

<https://www.amazon.co.uk/Ultimate-Cricket-Superstars-Tanya-Aldred/dp/1529502012>

Athletics:

<https://www.royalnavy.mod.uk/navyfit/sports/associations/athletics>

<https://classroom.thenational.academy/units/athletic-activity-acquiring-techniques-f894>

Cricket:

<https://www.thenational.academy/teachers/programmes/physical-education-secondary-ks3-l/units/games-activity-analysing-and-improving-performance-b426/lessons>

Athletics:

<https://www.thenational.academy/teachers/programmes/physical-education-secondary-ks3-l/units/athletic-activity-developing-power-strength-and-speed-8d9a/lessons>

KS3 books and online resources

Religion, Philosophy & Ethics

Resources to support Learning Cycle 2: Christianity: Beyond the Bible

- Bible
- Crucifixion
- Holy Trinity
- Incarnation
- Persecution
- Resurrection
- Worship

Key Vocabulary

Learn these to support your learning in lessons

Websites and Resources to develop your understanding

- Christianity (KS3 Knowing Religion) by Robert Orme
- The Illustrated Bible: from Creation to Revelation, DK Publishing
- Opening up the Bible by Mary Batchelor

BBC Bitesize: The Nature of God and Jesus

<https://www.bbc.co.uk/bitesize/guides/zrpqmsg/revision/1>

BBC Bitesize: Key Beliefs in Christianity

<https://www.bbc.co.uk/bitesize/guides/z683rwx/revision/1>

BBC Bitesize: Practices in Christianity

<https://www.bbc.co.uk/bitesize/guides/znack2p/revision/1>

What is Christianity? My Life, My Religion

<https://www.youtube.com/watch?v=yEtR2ouw76c>

KS3 Recommended reading

Spring Term: April - May 2024

Year 8 Religion, Philosophy & Ethics

Subject: Science

Learning Cycle 1, Periodic table

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

- 1. Element
- 2. Group
- 3. Period
- 4. Property
- 5. Displacement

Key Vocabulary
Learn these using the suggested activities in your vocabulary books

- 1. What is the periodic table?
<https://www.britannica.com/science/periodic-table>
- 2. History of the periodic table:
<https://www.bbc.co.uk/bitesize/topics/zv9nhcw/articles/ztmrr2p>

Recommended Reading

- 1. BBC bitesize KS3 periodic table
<https://www.bbc.co.uk/bitesize/topics/zv9nhcw>

Useful Research Sites

PREP	Topic	Assignment	Completed?
Practice	Describing what clothes you wear.	Complete week 3 in booklet and revise 3A vocabulary on knowledge organiser.	
Practice	Narrating a past festival trip.	Complete week 4 in booklet and revise 4A vocabulary on knowledge organiser.	
Practice	Planning your future technology use	Complete week 5 in booklet and revise 5A vocabulary on knowledge organiser.	
Practice	Descriptions/Hobbies/Healthy lifestyles	As directed by your teacher. Revise your vocabulary from the topics. Use Quizlet to help you to practice.	
Practice	Descriptions/Hobbies/Healthy lifestyles	As directed by your teacher. Revise your vocabulary from the topics. Use Quizlet to help you to practice.	

Llevo – I wear
 Me gusta llevar – I like to wear
 Fui – I went
 Llevé – I wore
 Fue – It was
 Voy a utilizar – I’m going to use
 Voy a hacer – I’m going to do

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: April – May 2024

Year 8