

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.

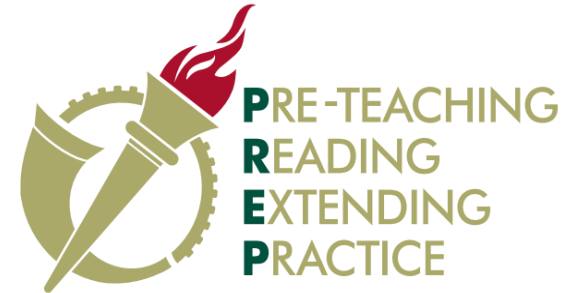
All PREP Learning tasks are essential to your learning in lessons and revolve around four principles:

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



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.

September- October 2023

Assignment	PREP	Home learning Task	Completed?
1	Extend	Review negative and positive space https://www.bbc.co.uk/bitesize/guides/z23hp39/revision/4	
2	Pre Learning	Research into Henri Matisse and his technique of Paper cutting and bring in two facts about his cut out work	
3	Extend	Virtually visit the Chinese paper cutting museum https://g.co/arts/stCy1gfpAqGdBWMu8	
4	Pre Learning	Watch the video about Chinese paper cutting & make a mind map of ideas from this video. https://www.youtube.com/watch?v=RnPpGvKVWKQ	

1. Positive Space
2. Negative Space
3. Paper Cut
- 4.

Key Vocabulary

Learn these using the suggested activities in your vocabulary books

Recommended Reading

1. <https://www.bbc.co.uk/bitesize/guides/z23hp39/revision/4>
2. <https://g.co/arts/stCy1gfpAqGdBWMu8>

1. <https://www.tate.org.uk/kids/explore/who-is/who-henri-matisse>
2. <https://www.tate.org.uk/kids/explore/kids-view/meet-matisse>
3. <https://www.tate.org.uk/tate-etc/issue-31-summer-2014/it-was-drawing-scissors-there-was-sensuality-cutting>

Useful Research Sites

Autumn Term– September- October 2023

Year 9

HTML, tags, attribute, directory, render, CSS, head, body, hyperlink, crawler, spider, index, query, Connective, clause, AND, OR, NOT, quote search

Key Vocabulary

Websites and Resources to develop your understanding of

1. Get Coding! Learn HTML, CSS, and JavaScript and Build a Website, App, and Game –by Young Rewired State and Duncan Beedie
2. Create Your First Website in easy steps (The QuestKids do Coding) –by Daryyl Bartlett
3. How to build a website
<https://www.squarespace.com/how-to/build-a-website>

HTML tutorial

<https://www.w3schools.com/html/>

CSS tutorial

<https://www.w3schools.com/css/>

CSS reference guide

<https://www.w3schools.com/cssref/index.php>

KS3 books and online resources

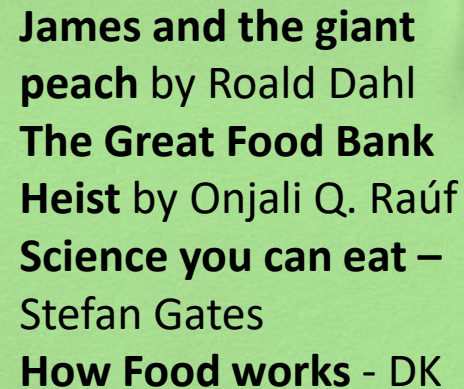
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Year 9 – Developing for the web

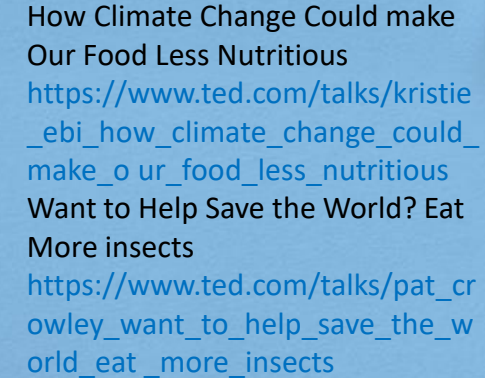
- 
1. Coeliac disease
 2. Lactose intolerance
 3. Modification
 4. Allergies
 5. Sustainability

Key Vocabulary

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



**James and the giant
peach** by Roald Dahl
**The Great Food Bank
Heist** by Onjali Q. Raúf
Science you can eat –
Stefan Gates
How Food works - DK



How Climate Change Could make
Our Food Less Nutritious
https://www.ted.com/talks/kristie_ebi_how_climate_change_could_make_our_food_less_nutritious
Want to Help Save the World? Eat
More insects
https://www.ted.com/talks/pat_crowley_want_to_help_save_the_world_eat_more_insects

KS3 Books to read

1. Design Movements
2. Design Brief
3. Design Specification
4. Computer Aided Design (CAD)
5. Computer Aided Manufacture (CAM)
6. Computer Numerical Control (CNC)
7. Laser Cutter
8. Bitmap
9. Vector
10. Monochrome

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
- **The Language of Things** - Deyan Sudjic
- **The Design Thinking Playbook** – Wiley

- **Oak Academy:**
https://teachers.thenational.academy/subjects/design-technology?fbclid=IwAR3J6XQzHL4mUbEg1PXSJFpsxrtgQ-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

Motion

2. Mechanisms

3. Design Context

4. Iterative

5. Selection and Rejection

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
- **The Language of Things** - Deyan Sudjic
- **The Design Thinking Playbook** – Wiley

- **Oak Academy:**
https://teachers.thenational.academy/subjects/design-technology?fbclid=IwAR3J6XQzHL4mUbEg1PXSFpsxrtgQ-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

Subject: Geography

Learning Cycle 1: Brazil

PREP	Topic	Assignment	Completed?
Extending	Rio	Make a list of the top 10 reasons to live in Rio	
Extending	Urban characteristics	Revise key terms for a key term vocab test	
Extending	Challenges of living in a favela	Read the story of Jessica and make notes on the challenges she faces living in the favela	

1. Natural increase
2. Migration
3. Industrial development
4. Cultural diversity
5. Multiplier effect

Recommended Reading

1. Brazil: <https://www.kids-world-travel-guide.com/brazil-facts.html>
2. Life in a favela: <https://www.bbc.co.uk/bitesize/clips/zpw3cdm>

Key Vocabulary

Learn these using the suggested activities in your vocabulary books

1. Challenges and opportunities in Rio:
<https://www.bbc.co.uk/bitesize/guides/zw6pwx/revision/5>
2. Improving favelas through self help schemes:
<https://www.bbc.co.uk/bitesize/guides/zryqtr/revision/13>

Useful Research Sites

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Subject: History

Learning Cycle 1: How had English identity come to be formed by 1066?

PREP	Topic	Assignment	Completed?
Practice	The Anglo-Saxons and Viking Raids	Complete Microsoft forms quiz assigned by class teacher	
Practice	Viking raids and settlements	Complete Microsoft forms quiz assigned by class teacher	
Extend	In the same time period elsewhere	Meanwhile Elsewhere – Abbasid Caliphate	

1. Danelaw
2. Earldom
3. Danegeld
4. Valhalla
5. Settlement

Recommended Reading

1. Misconceptions on Vikings:
<https://www.youtube.com/watch?v=pKE2SFR6Vos>
2. The Vikings:
<https://www.readingmuseum.org.uk/blog/vikings-reading>
3. Migration in Medieval England:
<https://www.pearsonschoolsandfecolleges.co.uk/asset-library/pdf/Secondary/history/edexcel-gcse-history/samples/edexcel-gcse-9-1-migration-sample-chapter-1-june-2021.pdf>

Key Vocabulary

Learn these using the suggested activities in your vocabulary books

1. Viking Invasions:
<https://www.bbc.co.uk/bitesize/guides/z3wfmnb/revision/1>
2. The Anglo-Saxons:
<https://www.bbc.co.uk/bitesize/guides/z8f4mnb/revision/2>
3. Viking Raids and Settlements:
[https://studyrocket.co.uk/revision/gcse-history-aqa/conquerors-and-the-conquered/the-vikings#:~:text=Viking%20Settlement%20in%20Britain,places%20like%20Jorvik%20\(York\).](https://studyrocket.co.uk/revision/gcse-history-aqa/conquerors-and-the-conquered/the-vikings#:~:text=Viking%20Settlement%20in%20Britain,places%20like%20Jorvik%20(York).)

Useful Research Sites

Subject: Maths

Learning Cycle: 1,2 and 3

PREP	Topic	Assignment	Completed?
Practice Extending	Arithmetic with Fractions	'Complete Maths' weekly retrieval quiz to practice your fluency and extend your problem-solving skills	
Practice Extending	Arithmetic with Fractions	'Complete Maths' weekly retrieval quiz to practice your fluency and extend your problem-solving skills	
Practice Extending	Arithmetic with Fractions Expressions and Formulae	'Complete Maths' weekly retrieval quiz to practice your fluency and extend your problem-solving skills	
Practice Extending	Expressions and Formulae	'Complete Maths' weekly retrieval quiz to practice your fluency and extend your problem-solving skills	
Practice Extending	Expressions and Formulae	'Complete Maths' weekly retrieval quiz to practice your fluency and extend your problem-solving skills	
Practice Extending	Expressions and Formulae Angles and Polygons	'Complete Maths' weekly retrieval quiz to practice your fluency and extend your problem-solving skills	
Practice Extending	Angles and Polygons	'Complete Maths' weekly retrieval quiz to practice your fluency and extend your problem-solving skills	

Arithmetic with fractions

Tier 2

Factor, multiple, prime, coprime, proper, improper, product, difference,

Tier 3

Numerator, denominator, reciprocal, sum, unit fraction

Expressions and formulae

Tier 2

Expand, collect, term, variable, expression, function, represent, simplify, product, sum, power, rearrange, indices, inverse, root, function

Tier 3

Factorise, equation, coefficient, formulae, binomial

Angles and Polygons

Tier 2

Interior, exterior, acute, obtuse, reflex, degree, turn, regular, irregular, total, proof, supplementary, parallel, corresponding, alternate

Tier 3

Polygon, quadrilateral, right angle, protractor, sum, co-interior,

<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

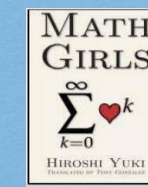
<https://parallel.org.uk/>

Key Vocabulary

Learn these using the suggested activities in your vocabulary books

Fermat's Last Theorem by Simon Singh

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



Recommended Reading

Useful Research Sites

Autumn Term– September- October 2023

Year 9

Famous Mathematician Research Project
Charles Babbage and Ade Lovelace

Songwriting

- Chord progression
- Root position
- Inverted Chords
- Strophic Form
- Conjunct
- Disjunct
- Hook
- Riff
- Range
- Chromaticism

Viennese Waltz

- Waltz
- 18th Century life
- Time Signature
- Articulation
- Dynamics
- Ternary Form
- Tonic key
- Relative minor

Key Vocabulary

Websites and Resources to develop your understanding of

<https://www.youtube.com/watch?v=HTYrkOZ5nCs>

Axis of Awesome – 4 chords song.

https://www.youtube.com/watch?v=fO_Z5TiSEBI

<https://www.youtube.com/watch?v=LKcZL8q1eBw>

A selection of famous Waltz's to support learning

<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

Handball:

Pass
Shoot
Intercept
Dribbling
Tactics
Formation
Teamwork

Trampolining:

Seatdrop
Backdrop
Front drop
Tuck, pike,
straddle
Somersault
Half-twist

Key Vocabulary

Websites and Resources to develop your understanding of

Handball:

<https://www.bbc.co.uk/bitesize/topics/ztdw82p>
<https://www.youtube.com/watch?v=PcBwK9NTqNw>
<https://www.rulesofsport.com/sports/handball.html>

Trampolining:

[Trampolining technique for performing a front landing - GCSE Physical Education Revision - WJEC - BBC Bitesize](#)
[Trampolining technique for performing a back landing - GCSE Physical Education Revision - WJEC - BBC Bitesize](#)

Gymnastics:

<https://www.british-gymnastics.org>

[Gymnastics | UK Sport](#)

Handball:

<https://englandhandball.com>

[Handball | UK Sport](#)

KS3 books and online resources

Religion, Philosophy & Ethics

Resources to support Learning Cycle 1: Human Rights

- Equality
- Freedom
- Injustice
- Justice
- Responsibility
- Right

Key Vocabulary

Learn these to
support your
learning in lessons

Websites and Resources to develop your understanding

Here I stand: Stories that Speak for Freedom – Amnesty

International UK

How to Make a Better World – DK
Publishing

I am Malala by Malala Yousafzai

The Art of Being Normal by Lisa
Williamson

Amnesty International

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

BBC Bitesize: Rights and Responsibilities

<https://www.bbc.co.uk/bitesize/guides/z93ck7h/revision/3>

BBC Bitesize: What is equality and Social Justice?

<https://www.bbc.co.uk/bitesize/topics/znbrpg8/articles/z42khbk#:~:text=A%20government%20that%20protects%20human,their%20rights%20within%20a%20society.>

KS3 Recommended reading

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Year 9 Religion, Philosophy & Ethics

Subject: Science

Learning Cycle 1, Electricity and Magnetism

PREP	Topic	Assignment	Completed?
Practice	Electricity and magnetism	Knowledge organiser/Glossary	
Practice	Electricity and magnetism	Carousel learning	
Practice	Electricity and magnetism	Kerboodle quiz	
Pre-Learning	Electricity and magnetism	Lodestone – what is it, how is it formed, etc? Fact-finding task	
Extending	Electricity and magnetism	Carousel learning	
Practice	Electricity and magnetism	Knowledge organiser/Glossary	

1. Ion
2. Charge
3. Electric field
4. Current
5. Voltage

Key Vocabulary

Learn these using the suggested activities in your vocabulary books

1. Static electricity
<https://www.bbc.co.uk/bitesize/topics/zgy39j6/articles/zshqqfr?course=zrhvwx>
2. Electricity and George Ohm
<https://learn.sparkfun.com/tutorials/voltage-current-resistance-and-ohms-law/all#electricity-basics>

Recommended Reading

1. BBC bitesize KS3 Electricity
<https://www.bbc.co.uk/bitesize/topics/zgy39j6/articles/z8mxgdm>
2. Kerboodle.com

Useful Research Sites

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PREP	Topic	Assignment	Completed?
Practice	Acids and Alkalis	Knowledge organiser/Glossary	
Practice	Acids and Alkalis	Carousel learning	
Practice	Acids and Alkalis	Kerboodle quiz	
Extending	Acids and Alkalis	Who invented the pH scale and why is it so useful? Fact-finding task	
Practice	Acids and Alkalis	Carousel learning	
Practice	Acids and Alkalis	Knowledge organiser/Glossary	

1. Acid
2. Alkali
3. Indicator
4. pH scale
5. Neutralisation

Recommended Reading

1. BBC bitesize KS3 Acids and Alkalis
<https://www.bbc.co.uk/bitesize/topics/zn6hvcw>
2. Kerboodle.com

Key Vocabulary

Learn these using the suggested activities in your vocabulary books

1. What is an acid or a base?
<https://www.sciencebuddies.org/science-fair-projects/references/acids-bases-the-ph-scale>
2. Acids and alkalis
<https://www.bbc.co.uk/bitesize/guides/zyn3b9q/revision/1>

Useful Research Sites