

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 three principles:

Practice – helping you to retain and remember information

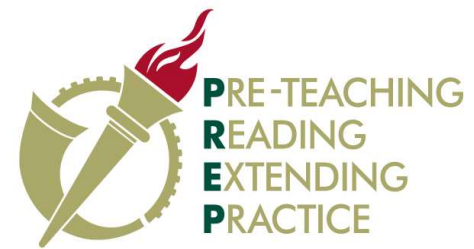
Reading- helping you to build your knowledge

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 and put it 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/email your teacher or attend Home Learning Club after school.



November-December 2024



Subject: ART

Learning Cycle: Year 9

Assignment	PREP	Topic	Home learning
1	Practice	Artist Research	<ul style="list-style-type: none"> • Create an informative artist research page based on the oil painter Jessica Brilli OR David Hopper depending on which artist your teacher sets • Include information, pictures of her work and a colourful design
2	Extend	Art Challenge - Painting Challenge	<ul style="list-style-type: none"> • Create a painting based on the theme of 'holiday'

1. Applique
2. Blanket stitch
3. Back Stitch
4. Whip Stitch
5. Running Stitch
6. Chain Stitch

Recommended Reading

<https://www.thesprucecrafts.com/learn-stitches-and-hand-sewing-projects-2978472>

Key Vocabulary

Learn these using the suggested activities in your vocabulary books

<https://cristearoberts.com/exhibitions/235-barbara-walker-vanishing-point/>

Useful Research Sites

Rotation work – depending on the Group.

Year 9

Key Vocabulary

- Blender
- Key frame
- Ray tracing
- Tweening
- Render
- Knife tool

Websites and Resources to develop your understanding of

1. Blender training
<https://studio.blender.org/training/>
2. Class central blender courses
[https://www.classcentral.com/subject/blender3.](https://www.classcentral.com/subject/blender3)
Blender for dummies
by Jason van Gumster

Blender Tutorials
<https://www.youtube.com/channel/UCZFUrFovqIN8seaAeEwjw>
Blender Download
<https://www.blender.org/download/>
Beginners guide to blender
<https://www.instructables.com/Beginners-Guide-to-Blender/>

KS3 books and online resources

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

Design Technology: Clocks

Resources to support lessons

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-FAgbrndWjgf_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

Autumn Term–November-December 2024

Year 9

Design Technology: Sweet Dispenser

Resources to support lessons

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

Key Vocabulary

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- **Stuff Matters** – Mark Miodownik
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- **Oak Academy:**
https://teachers.thenational.academy/subjects/design-technology?fbclid=IwAR3J6XQzHL4mUbEg1PXSJFpsxrtgQ-FAgbrndWjgf_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

Autumn Term–November- December 2024

Year 9

Subject: English

Learning Cycle: 1 Iridescent Adolescent

Please use the following as an overview of the tasks that will be set – as directed by the class teacher. These will be tailored to the class and will be set according for the groups' learning.

PREP	Topic	Assignment	Completed?
Reading	Iridescent Adolescent - Texts in Conversation	Use the reading lists to select a book you would like to read this term. Please bring this to your reading lesson next week.	
Practice	Iridescent Adolescent - Texts in Conversation	Using what you have learned in class complete your catastrophic opener task	
Practice	Iridescent Adolescent - Texts in Conversation	Please complete your short story quiz	
Practice/Extending	Iridescent Adolescent - Texts in Conversation	Complete your show not tell task	

- graphic form
- coming-of-age
- omniscient narrator
- protagonist
- foreshadowing
- linear/non-linear

Key Vocabulary

Learn these using the suggested activities in your vocabulary books



Recommended Reading



- ✓ Pretty Monsters by Kelly Link
- ✓ Here I stand by various authors
- ✓ How they met by David Levithan
- ✓ A Change is Gonna Come by various authors
- ✓ The Ghosts of Heaven – Marcus Sedgewick

- <https://www.barbarableiman.com/post/the-cabinet-not-the-house-what-s-special-about-short-stories>
- <https://literacytrust.org.uk/resources/resources-to-support-telling-and-writing-stories-in-ks3/>

Useful Research Sites



Autumn Term– November - December 2024 - **Year 9**

Subject: English

Learning Cycle: 1 Iridescent Adolescent

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- ✓ Pretty Monsters by Kelly Link
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- ✓ The Ghosts of Heaven – Marcus Sedgewick

Useful Research Sites



Autumn Term– November - December 2024 - **Year 9**

MFL – French

Learning Cycle: Francophone figures/region

PREP	Topic	Assignment	Completed?
Practice	Speaking about your role model	Complete speaking preparation in booklet	
Practice	Describing your local area	Complete week 1 in booklet	
Practice	Giving opinions on your local area	Complete week 2 in booklet	
Practice	Regions in the past	Complete week 3 in booklet	
Practice	Regions in the past	Complete week 4 in booklet	
Practice	Regions in the future	Complete week 5 in booklet	

I live– **j’habite**
 There is– **il y a**
 There isn’t – **il n’y a pas de**
 You can – **on peut**
 We built– **on a construit**
 We improved – **on a amélioré**
 I would like to live - **Je voudrais habiter**

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

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

Useful Research Sites

Autumn Term– November- December 2024

Year 9



Subject: Geography

Learning Cycle 2 - Amazonia

PREP	Topic	Assignment	Completed?
Practice	Characteristics of the Amazon Rainforest	Create a summary mind map using online research about the characteristics (climate, animals, plants, people) of the Amazon Rainforest	
Practice	Deforestation	Create a fact file in your book all about the consequences and knock-on effects of deforestation in the Amazon	
Practice	Amazon	Design a poster to highlight the impacts of deforestation on a regional scale (within the Amazon) and a global scale (around the world)	

1. Biodiversity
2. Amazon
3. Rainforest
4. Adaptation
5. Deforestation

Recommended Reading

1. Amazon: <https://www.bbc.co.uk/bitesize/topics/ztaw2hv/articles/zppthcw>
2. Impacts of deforestation: <https://www.worldwildlife.org/threats/deforestation-and-forest-degradation#:~:text=Deforestation%20and%20forest%20degradation%20are,frequency%20of%20extreme%20weather%20events.>
3. Solutions to deforestation: <https://www.conservationevidence.com/actions/989#:~:text=Selective%20logging%20is%20the%20removal,where%20all%20trees%20are%20felled.>

Key Vocabulary

Learn these using the suggested activities in your vocabulary books



1. Why is the Amazon important
<https://www.wwf.org.uk/where-we-work/amazon>
2. Nutrient Cycle
<https://www.bbc.co.uk/bitesize/guides/z8r6fg8/revision/9>

Useful Research Sites

Autumn term: October – December 2024
Year 9



Subject: History

Learning Cycle 1: How has Enslavement and Abolition 'echoed' in Britain and Jamaica?

PREP	Topic	Assignment	Completed?
Practice	Colonisation and Enslavement	Complete Microsoft forms quiz assigned by class teacher	
Practice	Resistance, Revolts and Abolition	Complete Microsoft forms quiz assigned by class teacher	
Extend	In the same time period elsewhere	Meanwhile Elsewhere – Bunce Island Fortress, Sierra Leone	

1. Colonisation
2. Enslavement
3. Abolition
4. Reparation
5. Resistance

Recommended Reading

1. Nottingham's links to enslavement <https://www.nottinghamcitylibraries.co.uk/nottinghams-legacies-of-slavery-teaching-resources/>
2. Britain in the Caribbean <https://www.bbc.co.uk/bitesize/guides/zjyatfr/revision/2>
3. CARICOM statement on reparations (2014) <https://caricom.org/caricom-ten-point-plan-for-reparatory-justice/>

Key Vocabulary

Learn these using the suggested activities in your vocabulary books

1. Enslaved Resistance <https://www.bbc.co.uk/bitesize/guides/z732pv4/revision/1>
2. Enslavement, Abolition and Racism <https://www.bbc.co.uk/bitesize/guides/z732pv4/revision/6>
3. Colonisation of Jamaica <https://www.youtube.com/watch?v=9NL2ei3eWAO>

Useful Research Sites

Autumn term: October – December 2024
Year 9



Subject: Maths

Learning Cycle: 4, 5 and 6

PREP	Topic	Assignment	Completed?
Practice Extending	Angles and Polygons	'Complete Maths' weekly retrieval quiz to practice your fluency and extend your problem-solving skills	
Practice Extending	Angles and Polygons Sample space to calculate Theoretical Probabilities	'Complete Maths' weekly retrieval quiz to practice your fluency and extend your problem-solving skills	
Practice Extending	Sample space to calculate Theoretical Probabilities Ratio and percentage change	'Complete Maths' weekly retrieval quiz to practice your fluency and extend your problem-solving skills	
Practice Extending	Ratio and percentage change	'Complete Maths' weekly retrieval quiz to practice your fluency and extend your problem-solving skills	
Practice Extending	Ratio and percentage change	'Complete Maths' weekly retrieval quiz to practice your fluency and extend your problem-solving skills	
Practice Extending	Ratio and percentage change Rearranging and solving linear equations	'Complete Maths' weekly retrieval quiz to practice your fluency and extend your problem-solving skills	

Sample space to calculate theoretical probabilities

Tier 2

Outcome, likelihood, chance, event, bias, fair, distinct, compare, evaluate, calculate, theoretical, experimental, exhaustive, random, trial

Tier 3

Mutually exclusive, sample space

Ration and percentage change

Tier 2

increase, decrease, change, equivalent, relationship, fraction, ratio, function variable, dividend, inverse, express, interest, invest, compound, power, quantity,

Tier 3

Proportional, multiplier, numerator, denominator, multiplicative, percentage,

Rearranging linear equations

Tier 2

Expand, collect, term, variable, expression, function, represent, simplify, product, sum, rearrange, solve, formulae

Tier 3

coefficient, inverse, equation, factorise

<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

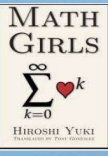
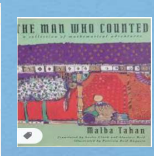
<https://parallel.org.uk/>

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– November - December 2024

Year 9

Curriculum Link with Sport

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

Table tennis

1. Top spin
2. Back spin
3. Side spin
4. Alternate serving

Badminton

1. Underarm or flick serve
2. Ready position to receive
3. Overhead clear to drive
4. Smash

Key Vocabulary

Websites and Resources to develop your understanding of

Table Tennis

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

Badminton

<https://www.bbc.co.uk/bitesize/guides/z37j2p3/revision/1>

Table Tennis

<https://www.bbc.co.uk/bitesize/guides/z9m7xsg/revision/1>

Badminton

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

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/z42kxhk#:~:text=A%20government%20that%20protects%20human,their%20rights%20within%20a%20society.>

KS3 Recommended reading

Autumn Term: October – December 2024

Year 9 Religion, Philosophy & Ethics



MFL – Spanish

Learning Cycle: Hispanic figures /region

PREP	Topic	Assignment	Completed?
Practice	Speaking about your role model	Complete speaking preparation in booklet	
Practice	Describing your local area	Complete week 1 in booklet	
Practice	Giving opinions on your local area	Complete week 2 in booklet	
Practice	Regions in the past	Complete week 3 in booklet	
Practice	Regions in the past	Complete week 4 in booklet	
Practice	Regions in the future	Complete week 5 in booklet	

I live– **vivo**
 There is– **hay**
 There isn't – **no hay**
 You can – **se puede**
 We built– **construyó**
 We improved – **mejoró**
 I would like to live – **me gustaría vivir**

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

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

Autumn Term– November- December 2024

Year 9



Subject: Science

Learning Cycle 1, The Earth

PREP	Topic	Assignment	Complete?
Practice	The Earth	Make a labelled model or collage showing the structure of the Earth. You must include descriptions of each layer to go with your model.	
Practice	The Earth	Use your knowledge organiser to learn the key differences in how sedimentary, metamorphic and igneous rocks are made.	
Extending	The Earth	Produce a comic strip or story of a route around the rock cycle. You should include key words, and names and descriptions of the processes involved.	
Extending	The Earth	Write a newspaper article aimed at members of the public, which explains what the greenhouse effect is, and describes global heating.	
Practice	The Earth	Revise for end of topic test.	

1. The rock cycle
2. The carbon cycle
3. Greenhouse gas
4. Porous
5. Atmosphere
6. Recycle

Recommended Reading

[The rock cycle - The Earth and atmosphere - KS3 Chemistry - BBC Bitesize](#)

Key Vocabulary

Learn these using the suggested activities in your vocabulary books.

[Climate change is hitting the planet faster than scientists originally thought \(nature.com\)](#)

Useful Research Sites

Subject: Science

Learning Cycle 2, Cell Systems

PREP	Topic	Assignment	Complete?
Practice	Cell Systems	Answer the exam-style question: <i>Use the nervous system to illustrate the hierarchy of organisation in a multicellular organism. (6 marks)</i>	
Practice	Cell Systems	Use your knowledge organiser to learn the names of enzymes and the nutrients they break down.	
Extending	Cell Systems	Choose either an alveolus or a villus. 1. Make a model of this structure. 2. Add labels to name the key parts and explain how these features maximise the exchange of named substances.	
Practice	Cell Systems	Produce a visual summary to explain how a leaf is adapted to maximise photosynthesis.	
Extending	Cell Systems	Sketch a plant and use this to produce a visual summary of the transpiration stream.	

1. Exchange surfaces
2. Circulatory System
3. Photosynthesis
4. Leaf structure
5. Transpiration
6. Enzymes

Recommended Reading

[The circulatory system - Respiration and gas exchange - KS3 Biology - BBC Bitesize](#)

Key Vocabulary

Learn these using the suggested activities in your vocabulary books.

[leaf - Kids | Britannica Kids | Homework Help](#)

Useful Research Sites