

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.

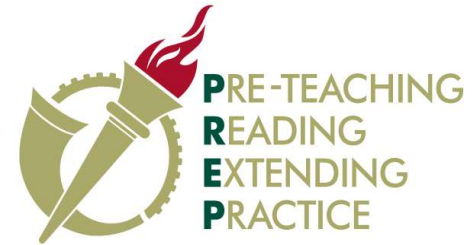
All PREP Learning tasks are essential to your learning in lessons and revolve around three principles:

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.

April-May 2025



Subject: ART

Learning Cycle: Mixed Media/ Textiles

Assignment	PREP	Home learning Task	Completed?
1	Pre-Teaching	Monoprinting	
2	Extend	Optional Art Task	

- Colour Theory
- Watercolour
- Painting
- Techniques
- Reflection
- Artist Analysis

Key Vocabulary

Learn these using the suggested activities in your vocabulary books

Recommended Reading

Youtube Step by Step Guides-
Watercolour background

<https://www.youtube.com/watch?v=Uu6d9pQ3zNQ>

www.bbcbitesize.co.uk For colour theory and links to Art guides



Useful Research Sites

Half term 5- April-May 2025

Year 9

Subject: Computer Science

Resources to support lessons

Infographic, outliers, correlation, PPDAC, investigative cycle, data cleansing, data capture

Key Vocabulary

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

**1. Data Science for
Beginners** by Andrew Park

**2. How to Be a Maths
Wizard: Data and Statistics**
by
Dr Anne Rooney

Datawrapper infographics tool
www.datawrapper.de

Netflix and big data motion graphic
www.youtube.com/watch?v=t6IEKqs210

Gapminder
www.gapminder.com

Land and ocean time series data
<https://berkeleyearth.org/data/>

Codap
codap.concord.com

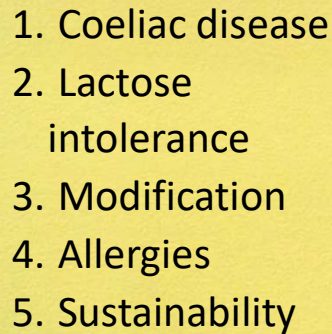
**KS3 books
and online
resources**

Summer Term: April-May 2025

Year 9 – Data Science

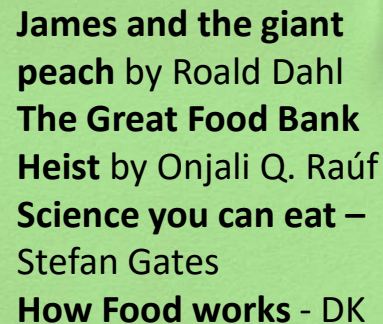
Design Technology: Food Technology

Resources to support lessons

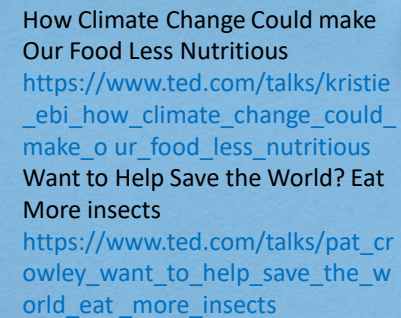
- 
1. Coeliac disease
 2. Lactose intolerance
 3. Modification
 4. Allergies
 5. Sustainability

 **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**

April-May 2025

Year 9

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-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

April-May 2025

Year 9

Design Technology: Sweet Dispenser

Resources to support lessons

1. 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=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

April-May 2025

Year 9

Subject: English

Learning Cycle 4: An Inspector Calls

PREP	Topic	Assignment	Completed?
Extending	An Inspector Calls	Task - Complete the research task as directed by your teacher	
Practice	An Inspector Calls	Task - Complete the analytical writing task as directed by your teacher	
Practice/ Extending	An Inspector Calls	Task – Make a revision quiz for a character	
Practice/ Extending	An Inspector Calls	Task – make revision flashcards for key quotes	
Practice	An Inspector Calls	Complete the revision tasks as directed by your teacher for your assessment	

☐ Omniscient
☐ Didactic
☐ Morality
☐ Condescending
☐ Aristocrat
☐ Capitalism
☐ Socialism
☐ Culpable

Key Vocabulary

Learn these using the suggested activities in your vocabulary books

✓ Please see the recommendations on the [reading journey](#)

Recommended Reading

- <https://www.bbc.co.uk/bitesize/topics/zpr639q>
- <https://www.aqaenglishrevision.com/an-inspector-calls>
- <https://www.douglaswise.co.uk/blog/british-library-essay-extracts-inspector-calls>

Useful Research Sites

Summer Term 1 - **Year 9**

Subject: Geography

Learning Cycle 3 – Physical Landscapes

PREP	Topic	Assignment	Completed?
Pre teaching	Physical landscapes	Research one physical landscape of your choice. Describe where it is and why it has formed.	
Revise and Learn	Physical landscapes	Revise the key terms from the Australia knowledge organizer in preparation for a quiz in lesson	
Extend	Physical landscapes	Make a poster showing everything you have learnt about physical landscapes across the world	

1. Erosion
2. Weathering
3. Deposition
4. Longshore drift
5. Landform

Recommended Reading

<https://www.nps.gov/yose/index.htm>
<https://www.fjordnorway.com/en/inspiration/what-is-a-fjord>

Key Vocabulary

Learn these using the suggested activities in your vocabulary books

<https://www.rgs.org/schools/resources-for-schools/jurassic-coast>
<https://www.bbc.co.uk/bitesize/guides/zt6r82p/revision/1>
<https://www.bbc.co.uk/bitesize/topics/zpcqxn timer>

Useful Research Sites

Spring Term:
Year 9

Subject: History

Learning Cycle 3: Why did America fight against Britain for it's Independence?

PREP	Topic	Assignment	Completed?
Practice	Colonisation of HK	Complete Microsoft forms quiz assigned by class teacher	
Practice	Post-WWII HK	Complete Microsoft forms quiz assigned by class teacher	

1. Empire
2. East India Company
3. Colonisation
4. Cultural Revolution
5. Handover

Recommended Reading

1. Protest in Hong Kong
<https://multimedia.scmp.com/infographics/news/hong-kong/article/3016815/hong-kong-protest-city/index.html>
2. <https://time.com/5606212/hong-kong-history-mass-demonstrations-protest/>

Key Vocabulary

Learn these using the suggested activities in your vocabulary books

1. HK History visualised
<https://www.nationalgeographic.com/culture/article/hong-kong-history-visualized>
2. BBC:
<https://www.bbc.co.uk/newsround/52907269>

Useful Research Sites

April-May, 2025
Year 9



Subject: Maths

Learning Cycle: 9, 10, 11 and 12

PREP	Topic	Assignment	Completed?
Practice Extending	Mathematical models	'Complete Maths' weekly retrieval quiz to practice your fluency and extend your problem-solving skills	
Practice Extending	Mathematical models Using graphs to solve equations	'Complete Maths' weekly retrieval quiz to practice your fluency and extend your problem-solving skills	
Practice Extending	Using graphs to solve equations Pythagoras	'Complete Maths' weekly retrieval quiz to practice your fluency and extend your problem-solving skills	
Practice Extending	Using graphs to solve equations Pythagoras	'Complete Maths' weekly retrieval quiz to practice your fluency and extend your problem-solving skills	
Practice Extending	Pythagoras Standard form	'Complete Maths' weekly retrieval quiz to practice your fluency and extend your problem-solving skills	
Practice Extending	Pythagoras Standard form	'Complete Maths' weekly retrieval quiz to practice your fluency and extend your problem-solving skills	

Mathematical Models

Add, subtract, multiply, divide, product, difference, sum, total, range, quotient, expression, formula, graph, pattern, percentage, fraction, ratio, proportion, variable, constant of proportionality, direct, inverse, rate of change, origin, modelling, sequence, linear.

Using graphs to solve equations

Quadratic, parabola, vertex, vertices, turning point, maximum, minimum, roots, intercepts, solution, equation, graphical, algebraic, simultaneous, cartesian, axis, axes, intercept, gradient, intersect, variable

Pythagoras

Pythagoras, theorem, length, hypotenuse, line segment, opposite, adjacent, sine, cosine, tangent, elevation, depression, edges, planes

Standard form and the number system

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

<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/>

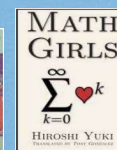
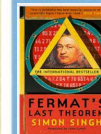
Key Vocabulary

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

Summer Term– April - May 2025

Year 9

Famous Mathematician Research Project

Pythagoras



MFL – French

Learning Cycle: Francophone regions/education

PREP	Topic	Assignment	Completed?
Practice	Narrating a past trip.	Complete week 4 in booklet	
Practice	Discussing future plans for your studies.	Complete week 5 in booklet	
Practice	Comparing school systems and giving opinions.	Complete week 6 in booklet	
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.	

En France – In France

Ils étudient – they study

Ils font – they do

Il faut – you must

Ils doivent – they must

C'est plus...que – it's more... than

C'est moins... que – it's less... than

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)

Recommended Reading

www.wordreference.com

www.duolingo.com/

www.quizlet.com

www.memrise.com

Useful Research Sites

Summer Term– April – May 2024

Year 9



MFL – Spanish

Learning Cycle: Hispanic regions/education

PREP	Topic	Assignment	Completed?
Practice	Narrating a past trip.	Complete week 4 in booklet	
Practice	Discussing future plans for your studies.	Complete week 5 in booklet	
Practice	Comparing school systems and giving opinions.	Complete week 6 in booklet	
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.	

En España – In Spain

Estudian – they study

Hacen – they do

Hay que – you must

Deben – they must

Es más... que– it's more... than

Es menos... que– it's less... than

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

Recommended Reading

www.wordreference.com

www.duolingo.com/

www.quizlet.com

www.memrise.com

Useful Research Sites

Summer Term– April – May 2024

Year 9



Subject: Music

Resources to support lessons

Viennese Waltz

- 3/4 time signature
- Dance
- Melody and Accompaniment
- Chord Progression
- Cadences
- C major
- A minor
- Ternary Form
- Sibelius

Advanced Songwriting

- 4-chord song
- Hook
- Riff
- Strophic Form
- Chorus
- Verse

Key Vocabulary

Websites and Resources to develop your understanding of

<https://www.youtube.com/watch?v=HTYrkOZ5nCs&t=1s>

Axis of Awesome – 4-Chord Song

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

Getting started with Sibelius

<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

Summer Term: April –May,2025

Year 9

Subject: Physical Education

Resources to support lessons

Softball:

1. Run
2. Steal
3. Foul ball
4. Ace
5. batters box
6. Strikeout

Athletics

1. Anchor Leg (relay)
2. Drive phase (sprinting – 100m, 200m, 400m)
3. Fosbury Flop (high jump)
4. Scratch line (Javelin)

Key Vocabulary

Websites and Resources to develop your understanding of

Softball:

<https://www.youtube.com/c/WorldAthletics/videos?cbrd=1>

Athletics:

<https://www.youtube.com/c/WorldAthletics/videos>

Mo Farah – Twin Ambitions

<https://www.amazon.co.uk/Twin-Ambitions-Autobiography-Olympic-champion/dp/1444779583>

Softball:

Softball Rules:

<https://www.rulesofsport.com/sports/softball.html>

Athletics:

Athletics History:

<https://www.bbc.co.uk/bitesize/guides/zxvf39q/revision/1>

KS3 books and online resources

HT5: Easter – May 2025

Year 9

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 Morpew

BBC Bitesize: What happens when we die?

<https://www.bbc.co.uk/bitesize/articles/zbqp7nb>

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 non-religious people

<https://www.bbc.co.uk/bitesize/guides/zddbq3/revision/2>

KS3 Recommended reading

Summer Term: April - May 2025

Year 9 Religion, Philosophy & Ethics



Subject: Science

Learning Cycle 3, Cells

PREP	Topic	Assignment	Completed?
Practice	Cells	Knowledge organiser/Glossary	
Practice	Cells	Cells online video lesson- https://cognitoedu.org/coursesubtopic/b2-gcse-aqa-f-c-1.02	
Practice	Cells	Knowledge organiser/Glossary	
Practice	Cells	Annotate learning steps	
Practice	Cells	Knowledge organiser/Glossary	
Practice	Cells	Revision activities, https://www.bbc.co.uk/bitesize/guides/z2s83k7/revision/1	

1. Cell
2. Magnification
3. Specialised cell
4. Diffusion
5. Unicellular

Key Vocabulary

Learn these using the suggested activities in your vocabulary books

Recommended Reading

1. What are cells?
<https://www.bbc.co.uk/bitesize/guides/zpqpqhvh/revision/1>
2. Microscopy:
<https://www.youtube.com/watch?v=SX6mow1AExI>

1. Cells <https://www.bbc.co.uk/bitesize/guides/zpqpqhvh/test>

1. Light microscopes
<https://www.bbc.co.uk/bitesize/guides/zpqpqhvh/video>

Useful Research Sites

Summer term: April – July 2025
Year 9



Subject: Science

Learning Cycle 3, Atomic Structure & Periodic table

PREP	Topic	Assignment	Completed?
Practice	Atomic Structure & Periodic table	pre-learning tasks https://www.bbc.co.uk/bitesize/guides/zyn dcj6/revision/1	
Practice	Atomic Structure & Periodic table	Knowledge organiser/Glossary	
Practice	Atomic Structure & Periodic table	Annotate learning steps	
Practice	Atomic Structure & Periodic table	Knowledge organiser/Glossary	
Practice	Atomic Structure & Periodic table	Revision activities https://www.bbc.co.uk/bitesize/guides /zyn dcj6/revision/1	
Practice	Atomic Structure & Periodic table	Knowledge organiser/Glossary	

1. Alkali metals
2. Halogens
3. Properties
4. Atomic model
5. Electron

Recommended Reading

1. Arrangement of the periodic table
<https://www.bbc.co.uk/bite size/guides/ztrxdxs/video>
2. Halogens and Noble gases
<https://www.youtube.com/ watch?v=HT1zAPQIBAQ>

Key Vocabulary

Learn these using the suggested activities in your vocabulary books

1. Groups in the periodic table
<https://www.bbc.co.uk/bi tesize/guides/ztrxdxs/revi sion/1>
2. Properties of metals and non-metals
<https://www.bbc.co.uk/bi tesize/guides/zwt2k2p/revi sion/4>

Useful Research Sites

Summer term: April – July 2025
Year 9

Subject: Science

Learning Cycle 3, Conservation and dissipation of energy

PREP	Topic	Assignment	Completed?
Practice	Energy	Knowledge organiser/Glossary	
Practice	Energy	Spotting energy stores and transfers at home	
Practice	Energy	Knowledge organiser/Glossary	
Practice	Energy	Annotate learning steps	
Practice	Energy	Knowledge organiser/Glossary	
Practice	Energy	Revision activities https://www.bbc.co.uk/bitesize/guides/z83vtv4/revision/1	

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

Key Vocabulary

Learn these using the suggested activities in your vocabulary books

1. Energy stores
<https://www.bbc.co.uk/bitesize/guides/z8hsrwx/revision/3>
2. Conservation of energy
<https://mmerevise.co.uk/gcse-physics-revision/conservation-of-energy/>

Recommended Reading

1. Types of energy stores
<https://www.bbc.co.uk/bitesize/guides/z8hsrwx/video>
2. Energy
https://www.youtube.com/watch?v=H6D_ViW0Ch4

Useful Research Sites

Summer term: April – July 2025
Year 9