Henlow
Church of England Academy

Henlow Academy Home Learning Enrichment and Extension Tasks

YEAR 9

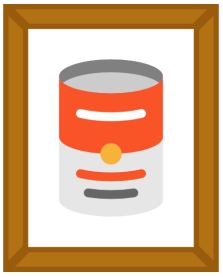
AUTUMN

Art

Pick an artwork from the slide title “SWEET LIFE ART” on the google classroom and fill in the form.

Complete the Colour Theory worksheet with coloured pencils. Store in your folder in your lesson.

Find “Pop Art research” on the google classroom. Use the slides and video provided to complete notes on the Pop Art movement.



Create a high quality pencil drawing of one of the photographs on “Sweet life Pencil drawing” slides on Google classroom. Think about the challenge level.
Store in your folder in your lesson.

Design your own sweet wrapper / drinks bottle label / crisp packet etc using your name or nickname as a new brand. Make it eye catching and think about the typography, colours and shapes that you are using to match your personality. Store in your folder in your lesson.

Create a copy of your choice of Sarah Graham artwork. You may use coloured pencils or paint if you have any. Try to be as accurate (close to the original) as possible.

Computing

Watch and complete the worksheet on converting Denary to Binary values (Edulink/Google Classroom).

- Create a revision sheet explaining how to convert between Binary, Denary, and Hexadecimal.

-Create 5 quiz questions (with answers) on binary conversion for a classmate to try.

Research real-world uses of binary and write an article explaining why computers use binary.

0110
1001
1010

Online Course:

Data Representation- https://www.bbc.co.uk/bitesize/subjects/zvc9q6f

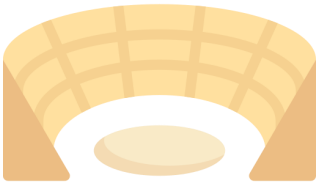
Complete a task of your choosing to wow your teacher with your interests and understanding.

Drama

Choose a drama practitioner (e.g. Stanislavski, Brecht, Artaud, Emma Rice). Write a 1-page research summary:

- Who they were
- Their approach to theatre
- One or two techniques they used
- How their ideas are different from others

Look up the difference between proscenium, thrust, and theatre-in-the-round stages. Sketch what each one looks like or describe how an audience would see the performance differently.



Write a structured evaluation (min 300 words) of a recent live or recorded performance you've seen (in class or at home). Use key drama vocabulary to analyse:

- Acting (Physical Skills)
- Staging (Vocal Skills)
- Lighting/costume
- Audience impact/response

Take a short scene from a known play (or one used in class/ DNA or Blood Brothers), and rewrite it in a different setting or time period (e.g. 1920s New York, dystopian future, medieval village). Keep the core message/emotions the same.

Watch a clip of physical theatre (e.g. Frantic Assembly or DV8) and write about how the performers used movement instead of words to tell the story. What was effective and why?

https://www.youtube.com/watch?v=VY6rEZU9K8I
https://www.youtube.com/watch?v=vNVPumETpuA
https://www.youtube.com/watch?v=vIDxSGyO_TQ
https://www.youtube.com/watch?v=PvctLx8H8xs

Choose or write a monologue (30–60 seconds). Prepare it for performance at home: consider voice, pace, pause, movement, facial expression, and subtext. Write a short paragraph explaining the choices you made in your performance.

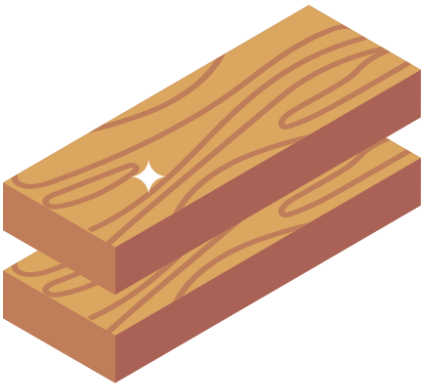
Design Technology

SEE MOOD LIGHT PROJECT BOOKLET

Differences in wood categories

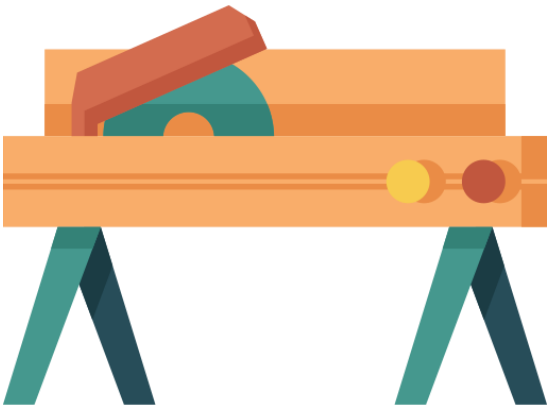
Wood categories – Hardwoods

Wood categories - Softwoods

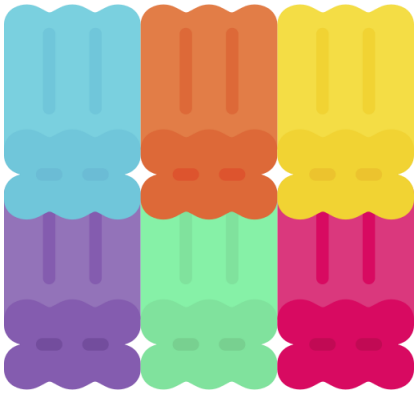


Wood categories - Manufactured boards

Wood construction types

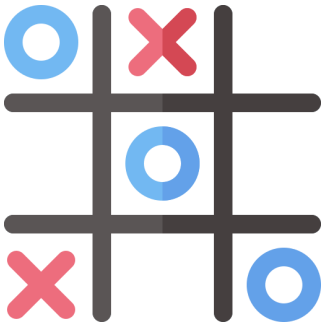


Polymer categories



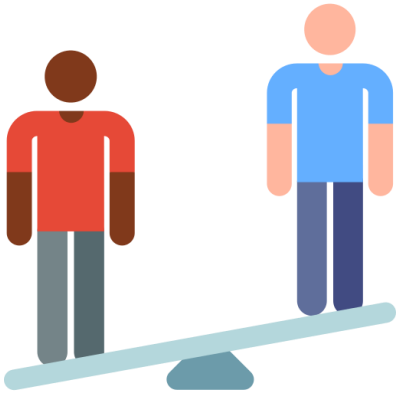
English

Design a book cover for Noughts and Crosses



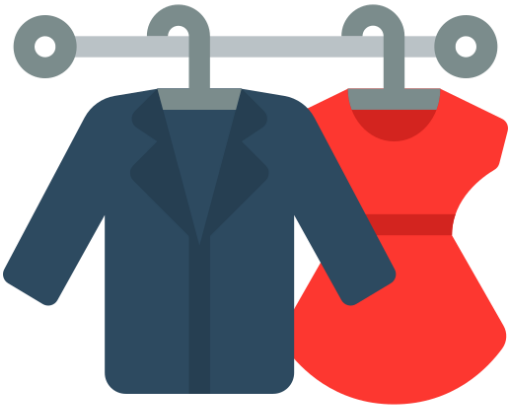
Imagine you are Malorie Blackman - write a paragraph about why you wrote this book

Carry some research out into one of the historical events mirrored in the novel and create a poster



Design a poster for Romeo and Juliet

Design costumes for the main characters



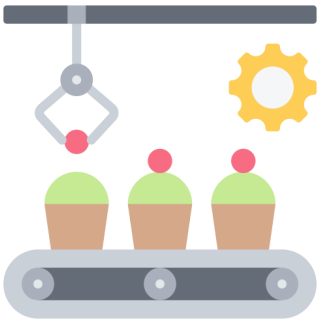
Write a modern day Romeo and Juliet story

Food Technology

Compulsory: Buy and bring in ingredients for their practical lessons.

Develop a step-by-step guide to explain how to prepare for and finish a practical. Include evidence of you working through the stages with photos or videos.

Research how one of the products you have made in school would be mass manufactured for a supermarket.



Remake one of the products we have made at home and take photos of the various stages to develop a step-by-step photographic method.

Ask a friend or family member to keep a food diary to record what they eat in a day. Analyse the results against the Eatwell Plate and write them a letter to advise them on how they could improve their diet.

Thinking about 5-a-day, conduct a survey to assess how many fruit and vegetables people eat. Present your results in graphs, analyse your findings, and make recommendations about how fruit and vegetable consumption could be improved.

GEOGRAPHY

ANALYSIS OF URBAN SPRAWL IN ONE UK CITY

Select and research one major city in the United Kingdom. For your city, create a visual representation (e.g., a series of simple maps or diagrams) showing its growth over time and how this urban expansion might have impacted the local environment. Include brief written explanations for each stage of growth and its potential environmental consequences.

UK WEATHER INFOGRAPHIC

Design an infographic that visually explains the key characteristics of the United Kingdom's weather patterns (e.g., temperature ranges, rainfall, prevailing winds, seasonal variations). Include at least five visual elements and concise descriptions. In a separate section of the infographic, illustrate with examples how urbanisation and industrial activities have contributed to environmental changes in the UK (e.g., air pollution, habitat loss).

INDUSTRY VS ENVIRONMENT PODCAST

Create a short podcast episode (3-5 minutes) discussing how a specific industry (e.g., coal mining, manufacturing, agriculture) in the United Kingdom has historically and currently impacted the environment. Include specific examples and potential solutions or mitigation efforts. You will need to write a script and record your podcast.

EXPERT DEBATE ON THE IMPACTS OF TOURISM ON THE ECONOMY

Create a written argument on the significance of tourism to the United Kingdom's economy. Research the economic benefits and potential drawbacks of the tourism industry. Present at least three arguments supported by evidence.

UK REGIONS TRAVEL BROCHURE

Design a travel brochure showcasing different regions of the United Kingdom. For each region, highlight how its weather patterns, key industries, and population distribution contribute to its unique character and tourist appeal. Include visuals and descriptive text that connects these elements.

ENVIRONMENTAL SOLUTION PROPOSAL

Identify a specific environmental issue in the United Kingdom that has been influenced by urbanisation or industrial activity (e.g., river pollution, air quality in cities, loss of green spaces). Develop a proposal outlining a potential solution to this problem. Your proposal should include: a clear description of the problem, your proposed solution, the steps involved in implementation, and potential challenges and benefits.

History

Listen to a historical podcast.

Practice learning basic geography for history using a map quiz or to test your knowledge with a game.

Watch a documentary or YouTube video on the topics you are studying.

Do some historical reading (fiction and non-fiction texts are available).

Visit a historical site (relevant locations suggested on Google Classroom).

There are a selection of activities uploaded to the History Google Classroom which can be chosen at any point.

MATHS

Properties of quadrilaterals - cut out the properties of quadrilaterals and organise the cards to the correct place.

https://amsp.org.uk/resource/333a6ec4-4c0a-4851-ec4a-08dabcbf9009/

Use desmos graphing calculator to investigate straight line graphs
https://www.desmos.com/calculator

Can you make a curve? What do you notice?
You may want to set up an account to show your work

COMING SOON

SPARX Maths

Maths Challenge (UKMT)
Mark your answers with the following link
Questions:
https://ukmt.org.uk/free-past-papers/junior-mathematical-challenge-2017

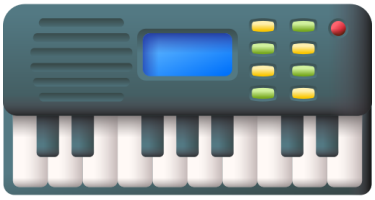
Solutions:
https://ukmt.org.uk/competition-papers/jsf/jet-engine:free-past-papers/tax/challenge-type:67/

Complete a task of your choosing to wow your teacher with your interests and understanding.

Music

Keyboard Skills

On Musicca work through the Note on the Piano exercises https://www.musicca.com/exercises/notes



Music Reading

On Musicca work through the Treble Clef exercises https://www.musicca.com/exercises/notes

Music Reading

On Musicca work through the Bass Clef exercises https://www.musicca.com/exercises/notes

Musical Elements

Compose a jingle/ditty/poem to help you remember the mnemonic MAD T SHIRT
There is a topic for Musical Elements on your Google Classroom

Musical Elements

Compose a jingle/ditty/poem to help you remember 3-4 key words for at least one of the Musical Elements

Complete a task of your choosing to wow your teacher with your interests and understanding.

RE

BRONZE

Create a piece of artwork (in your chosen media) to show the difference between the concept of stewardship vs dominion in religion.

Link to help: [Creation - Key beliefs](#).

SILVER

Create an infographic (by hand or on the computer) exploring the concept of The Trinity in Christianity.

GOLD

Create an informative flowchart to explain and demonstrate the process of evolution as demonstrated in the work of Darwin.

PLATINUM

Plan two ISONIC responses (a few bullet points per letter) for the following statements:

"The most important belief in Christianity is the trinity" Evaluate

"Christmas is the most important Christian festival" Discuss.

Complete a task of your choosing to wow your teacher with your interests and understanding.

Science

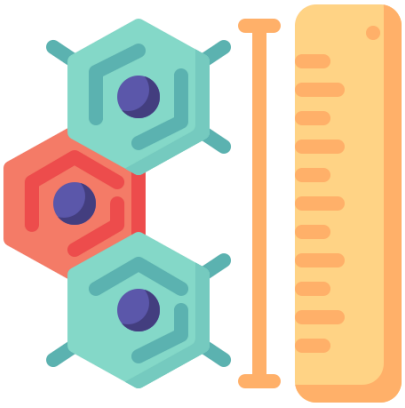
Research genetics in the news, e.g., neurodivergence, gene therapy, eye colour prevalence. Present your findings.

Design your perfect house and justify why you have chosen your materials.

Design a vehicle that could beat the land/water speed record.

Make a poster about selectively breeding the best pumpkin.

Research nanoparticles and their uses, e.g., medical.



Investigate how the length of a lever affects the force required to do something e.g. opening a tin or opening a door.