

Y4 Autumn Homework Grid



1. Become a Sound Spy!

Your mission is to investigate the sounds around your home. Sit quietly for 2 minutes and list as many sounds as you can hear. Can you sort them into natural sounds, people sounds and machine sounds? Choose your favourite sound and investigate how you could recreate it using things from your home. Super challenge: Can you create a sound-effects recording for a spooky story using only household objects?



2. The Mystery of the Missing Power!

Imagine you are a detective investigating a house where all the electrical items have stopped working! Find 5 things around your home that need electricity. What do you think would happen if there were no electricity for a whole day? Create a “24 Hours Without Electricity” survival guide with your top tips. Super challenge: Design a crazy invention that could help people if electricity suddenly disappeared!



3. Passport to the Rainforest

Pack your imaginary suitcase — you're going on an adventure to a rainforest! Create a travel passport for your journey. Include the rainforest you are visiting, what you might see, hear, smell and feel, what you would need to pack and 3 things you should NEVER do there. Super challenge: Create a rainforest animal using recycled materials or things you find at home. Give it a name and explain how it survives in the rainforest.



4. Time Traveller Challenge

You have found a mysterious time machine! Travel back to when your grandparents or great-grandparents were children. Interview an older family member about what childhood was like for them. Find out about school, games, toys, technology, food and free time. Create a “Then & Now” Top 10 showing the biggest differences. Super challenge: Draw yourself and your family member as children, using shading, tone and texture to make your drawings look 3D.



Bonus family challenge: The Recycled Invention Lab

Use only things that would otherwise be thrown away to invent something useful, funny or completely bonkers!

It could be a robot, vehicle, musical instrument, animal, game or even a super-powered torch. Give your invention a name and draw a labelled design before making it.

Remember: The aim isn't to make it perfect — it's to experiment, be creative and have fun!

Y4 Spring Homework Grid



1. The Supermarket Detective

Next time you visit a supermarket, become a food detective! Choose 3 different foods and investigate their labels. Where were they made or grown? What ingredients do they contain? Can you find the country of origin, and can you work out which food has travelled the furthest? Super challenge: Design your own food label for a completely imaginary food. Give it a name, ingredients, country of origin and fun facts!



2. Design a Monster!

Invent your own fantastical animal! Decide whether it is a mammal, bird, reptile, amphibian, fish or something else. Draw it and label its characteristics — Does it have fur? How does it reproduce? What does it eat? How does it move? Super challenge: Give your animal a habitat and explain what would happen if its habitat suddenly changed.



3. Anglo-Saxon Time Traveller

Imagine you have been transported back to Anglo-Saxon England! Create a “Day in the Life” diary from the point of view of an Anglo-Saxon child. What might you eat? Where might you live? What jobs might you do? What might you play with? Super challenge: Create an Anglo-Saxon-inspired pattern, shield or piece of artwork using different tones and textures to make it look 3D.



4. Art & Engineering Challenge

Become an inventor and artist! Using cardboard, paper, wooden lolly sticks or other recycled materials, design a vehicle that can move without you pushing it all the way. Draw your design first and label the parts. Think about wheels, axles, movement and friction. Then create it if you can! Super challenge: Give your vehicle a purpose — rescue vehicle, explorer, racing car, delivery vehicle or something completely original!



Bonus Challenge: The Amazing Human Machine

Humans are pretty incredible machines! Create a “Human Body Owner's Manual” for someone who has never met a human before.

Include:

-  What humans eat
-  What happens to food after we eat it
-  Some of the body's important organs
-  Why humans are mammals
-  What humans need from their habitat to survive

Make it fun: Add diagrams, silly warnings, illustrations and instructions such as “*Warning: Humans need sleep every night!*”

Y4 Summer Homework Grid



1. The Evaporation Experiment

Become a weather scientist! Put the same amount of water into two shallow containers. Place one somewhere warm and one somewhere cooler. Make a prediction: Which will disappear first? Check them at different times and record what you notice. What does this tell you about temperature and evaporation? Super challenge: Can you think of somewhere in your home where water might evaporate particularly quickly — and explain why?



2. Maya Mystery Mission

You have discovered a mysterious Maya object! Choose something the Maya created, discovered or used and become a historical detective. Find out what it was used for, why it was important and whether we still use a similar idea today. Present your findings as a museum display card or make a model/drawing of your object. Super challenge: Invent something inspired by the Maya that people could use today!



3. Become a Water Guardian

Imagine your town has asked you to help save water. Spend one day keeping track of all the ways your family uses water — washing, cooking, drinking, cleaning etc. Choose three ways to reduce water waste and create a colourful “Save Our Water!” campaign. Super challenge: Follow a drop of water on an imaginary journey through the water cycle, telling its story from beginning to end.



4. The Pavilion Challenge

You are an architect with a very unusual client! Design a pavilion for a creature of your choice — perhaps a giant, a penguin, a dragon or even an alien! Think carefully about the shapes and structures you use. Draw your design and explain why your shapes will make it strong. Super challenge: Build a small model using materials you have at home. Does your structure actually stand up? What could you change?



Bonus Creative Challenge: Texture Hunt

Go on a texture treasure hunt around your home. Find at least 6 interesting textures — rough, smooth, bumpy, furry, ridged, shiny etc. Create a piece of artwork using rubbings, drawings or patterns inspired by the textures you discovered. Challenge: Can you create a repeating pattern using at least three different textures?