QUARTZ CLASS - OPTIONAL HOMEWORK PROJECTS

Autumn Term 2 | Choose any project you fancy. Use materials you already have at home!

SCIENCE | Build a Beating Heart



1. Draw and label the four chambers of the heart.
2. Use arrows to show how blood travels through the heart, lungs and body.
3. Explain why the heart needs to keep pumping.

Materials: Paper, pencils, coloured pens; optional cardboard

SCIENCE | The Journey of a Sandwich



1. Choose a sandwich or another favourite meal.
2. Create a comic strip showing how food is digested and nutrients are absorbed in the small intestine.
3. Explain how the blood carries nutrients to cells around the body.

Materials: Paper, colouring pencils; optional food packaging

PSHE | My Healthy Habits Tracker



1. Design a seven-day tracker for brushing teeth, sleep, exercise and drinking water.
2. Record your habits for a week without judging yourself.
3. Choose one realistic habit you would like to improve and explain why.

Materials: Paper, ruler and coloured pens

PSHE | The Growth Mindset Toolkit



1. Think of a challenge you have found difficult.
2. Make a mini poster with five helpful phrases, such as "I can try a different strategy."
3. Add three ways to care for your mental wellbeing when things feel tricky.

Materials: Paper, pens; optional magazines

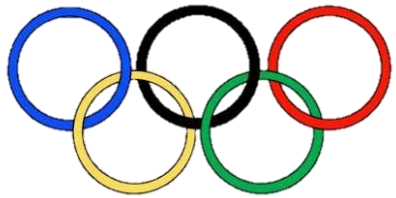
ENGLISH | The Door to Adventure



1. Invent a mysterious door and describe where it leads using the five senses.
2. Write an adventure scene with a problem, suspense and at least six lines of punctuated dialogue.
3. Edit your writing to improve vocabulary, paragraphing and punctuation.

Materials: Paper or computer; pencil or pen

FRENCH | Les Sports Olympiques



1. Choose six Olympic sports and find their names in French.
2. Create illustrated flashcards with the French and English names.
3. Write three simple French sentences about sports you like or dislike.

Materials: Card or paper, pens; optional dictionary

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MATHS | The Million-Pound Challenge



1. Imagine you have £1,000,000 to spend on a new adventure playground.

2. Choose at least five items, record their prices and calculate the total using addition and multiplication.

3. Use subtraction and division to show your remaining budget and how costs could be shared.

Materials: Paper, pencil, ruler, calculator for checking

MATHS | Fraction Café



1. Design a menu with at least four foods sold in fractional portions.

2. Create six addition or subtraction questions involving fractions, including different denominators.

3. Solve each one clearly and draw models to prove two answers.

Materials: Paper, pencils, coloured pens

ART | Monochrome Mini-World



1. Find five interesting objects or textures around your home or garden.

2. Photograph them very close up (macro-style), focusing on shape, light and texture.

3. Convert your three favourites to black and white and give each photograph a title.

Materials: Camera or tablet; optional printer

READING | Cogheart: Invent a Mechanimal



1. Invent a mechanical animal that could live in the world of Cogheart.

2. Draw and label its moving parts, special abilities and personality.

3. Write a paragraph explaining how it might help Lily on an adventure.

Materials: Paper, pencil, colouring pens

RE | Why Do People Believe?



1. Choose a belief or value that matters to someone (religious or non-religious).

2. Create a thought-provoking poster showing how beliefs can influence choices and actions.

3. Write three respectful questions you could ask to understand another person's beliefs.

Materials: Paper, pens; optional collage materials

MATHS | Secret Number Detective



1. Create a six-digit secret number and write it in words and expanded form.

2. Write eight clues using place value, rounding and comparisons.

3. Challenge someone to solve it, then explain how each clue works.

Materials: Paper, pencil; optional number cards