

As scientists, we will:

Study animals including humans with a focus on the role of the heart.
Identify and name the main parts of the human circulatory system and describe the functions of the heart, blood vessels and blood.
Recognise the impact of diet, exercise, drugs and lifestyle on the way bodies function.
Describe the ways in which nutrients and water are transported within animals, including humans.

As mathematicians, we will:

Read, write order and compare numbers up to 10,000,000 and determine the value of each digit.
Round any whole number to a required degree of accuracy
Use negative numbers in context and calculate intervals across zero.
Solve number and practical problems that involve all the above.
Solve addition and subtraction multistep problems in contexts deciding which operations and methods to use and why.
Multiply multi digit numbers up to 4 digits by a 2-digit number using formal written methods of long multiplication.
Divide numbers up to 4 digits by 2-digit whole number using the formal written method of long division, interpret remainders as whole number remainders, fractions, or by rounding as appropriate for context.
Identify common factors, common multiples and prime numbers.
Apply of all of the above to reasoning questions.

TERM: AUTUMN 1 TOPIC: THE HUMAN MACHINE

TEXT: PIG HEART BOY BY MALORIE BLACKMAN

As writers, we will:

- Write to inform: Explanation text on cardiovascular system
- Write to persuade: Persuasive letter on organ transplantation
- Write in response to our focus text: Pig Heart Boy
- Use a range of punctuation including dashes, colons, semi-colons, hyphens, parentheses
- Have daily spelling sessions; children will develop their understanding of etymology and morphology, looking at root words, prefixes and suffixes, and continue to learn words from the statutory Year 5/6 word list.

As readers, we will:

Read books and non-fiction texts that are structured in a variety of ways; identify themes, features, stylistic conventions and key points in a range of texts; annotate, evaluate and discuss texts including stories from other traditions and cultures.

As computer users, we will:

Use IT (Excel) to collect, present and interpret data.
Discuss, identify and minimize the risks of online use of technology and use the internet for research.
Develop a complex algorithm by writing code for a maze game.

As theologians, we will:

Learn about creation stories in different faiths and study Mesoamerican polytheism in the Maya period.

As designers, we will:

Design a healthy snack bar: Use market research to inform plans and ideas; follow, refine and justify plans; explain how products should be stored and give reasons.

As French speakers, we will:

Engage in conversations, expressing opinions
Speak in simple language & be understood
Develop appropriate pronunciation

As sports people, we will:

Football: play competitive games, modified where appropriate and apply basic principles suitable for attacking and defending.
Fitness and wellbeing: Daily mile (100-mile Challenge)

As musicians, we will:

Sing in harmony, perform parts from memory and take the lead in performances (singing)

As artists, we will:

Create self-portrait in response to Da Vinci's Profile of a Man.
Create sketch books to record observations and use them to revisit ideas.
Select from a range of drawing tools and use with increased control to create a specific effect - a profile self-portrait.

As geographers, we will:

Understand geographical similarities and differences through the study of human and physical geography of a region within North or South America - Yucatan/Guatemala.

As historians, we will:

Study a non-European society that provides contrasts with British history – Maya area c. AD 900