



# UK Primary School Curriculum Homework Sheet

Student Name: \_\_\_\_\_

Class: \_\_\_\_\_

Due Date: \_\_\_\_\_

## Introduction and Instructions

Welcome to this homework sheet, designed to assess your understanding of the UK Primary School Curriculum in English, Mathematics, and Science. This sheet is tailored to cater to mixed abilities, with differentiation options for foundation, core, and extension learners. Please read the instructions carefully and complete the tasks to the best of your ability.

## English - Foundation (10 marks)

1. What is the meaning of the word "narrative"?

- a) A type of poem
- b) A story or account of events
- c) A type of sentence
- d) A literary device

2. Identify the correct punctuation mark to use at the end of a sentence:

\_\_\_\_\_

- a) Comma (,)
- b) Full stop (.)
- c) Question mark (?)
- d) Exclamation mark (!)

3. Read the following passage and answer the question: "The sun was shining brightly in the clear blue sky."

What is the weather like in the passage?

- a) Cloudy
- b) Sunny
- c) Rainy
- d) Windy



## English - Core (20 marks)

1. Write a short paragraph about your favorite book. Be sure to include the title, author, and a brief summary of the plot.

2. Identify the correct spelling of the following words:

- a) sepearate
- b) sepearate
- c) separate
- d) seperete

3. Read the following passage and answer the questions: "The cat sat on the mat. The mat was soft and comfortable."

What is the main subject of the passage?

- a) The cat
- b) The mat
- c) The room
- d) The house



## English - Extension (30 marks)

1. Analyze the use of imagery in the following poem: "The sun sets slow and paints the sky, A fiery hue that makes me sigh."

What literary device is used in the poem?

- a) Metaphor
- b) Simile
- c) Personification
- d) Imagery

2. Write a creative story using the following prompt: "A mysterious box arrives at your doorstep."

Be sure to include descriptive language and a clear plot.

3. Write a persuasive essay on the topic: "Should schools start later in the morning?"

Be sure to include evidence and logical reasoning to support your argument.



## Mathematics - Foundation (10 marks)

1. What is the next number in the pattern: 2, 5, 8, 11?

- a) 14
- b) 15
- c) 16
- d) 17

2. Solve the equation:  $2x + 5 = 11$

- a)  $x = 2$
- b)  $x = 3$
- c)  $x = 4$
- d)  $x = 5$

3. Identify the shape with four right angles and four sides of equal length:

- a) Square
- b) Rectangle
- c) Triangle
- d) Circle

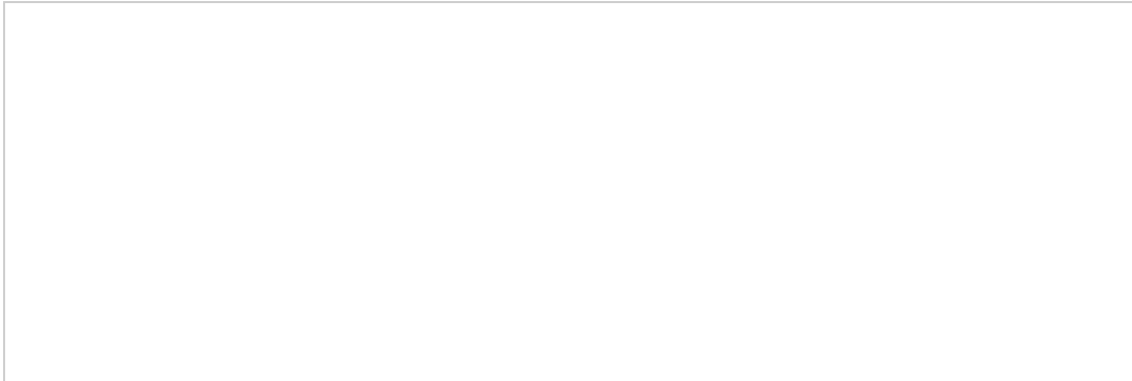




## Mathematics - Core (20 marks)

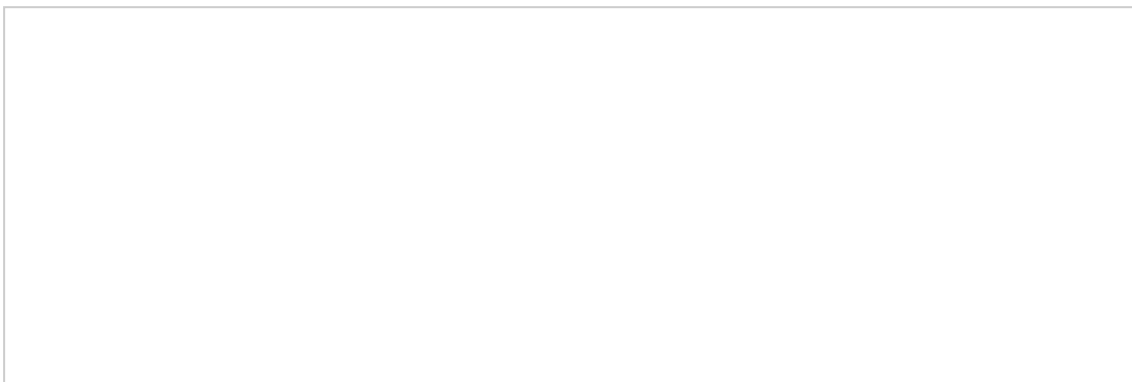
1. Solve the equation:  $x - 3 = 7$

- a)  $x = 4$
- b)  $x = 5$
- c)  $x = 10$
- d)  $x = 11$



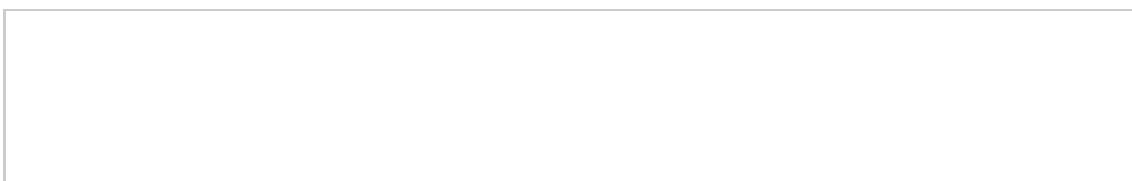
2. A bakery sells 250 loaves of bread per day. If they make a profit of £0.50 per loaf, how much profit do they make in a day?

- a) £100
- b) £125
- c) £150
- d) £200



3. Identify the fraction that represents the shaded area:

- a)  $\frac{1}{2}$
- b)  $\frac{1}{3}$
- c)  $\frac{2}{3}$
- d)  $\frac{3}{4}$





## Mathematics - Extension (30 marks)

1. A water tank can hold 1000 liters of water. If 300 liters of water are already in the tank, what percentage of the tank is filled?

- a) 20%
- b) 30%
- c) 40%
- d) 50%

2. Solve the equation:  $2x^2 + 5x - 3 = 0$

- a)  $x = 1$
- b)  $x = 2$
- c)  $x = 3$
- d)  $x = 4$

3. A car travels 250 miles in 5 hours. What is the average speed of the car?

- a) 25 mph
- b) 50 mph
- c) 60 mph
- d) 75 mph



## Science - Foundation (10 marks)

1. What is the process called when plants make their own food?

- a) Respiration
- b) Photosynthesis
- c) Decomposition
- d) Fermentation

2. Identify the part of the plant that makes food:

- a) Root
- b) Stem
- c) Leaf
- d) Flower

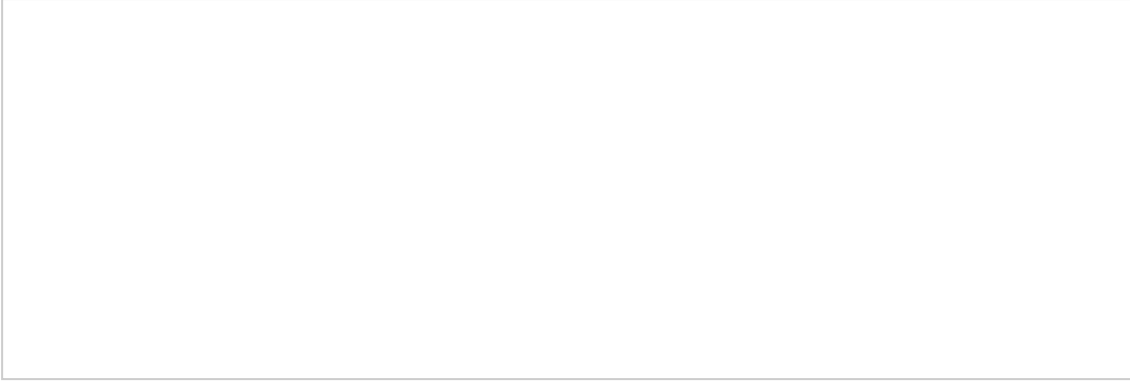
3. What is the largest planet in our solar system?

- a) Earth
- b) Saturn
- c) Jupiter
- d) Uranus



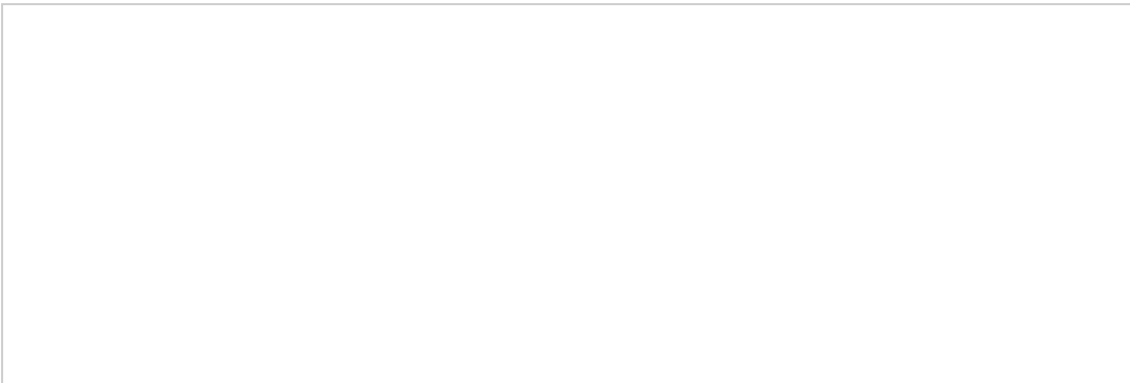
## Science - Core (20 marks)

1. Describe the water cycle.



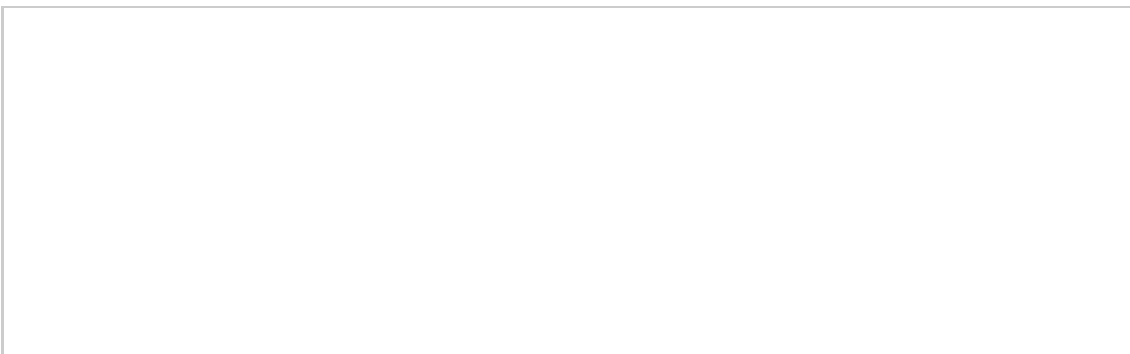
2. What is the scientific term for the "building blocks of life"?

- a) Cells
- b) Molecules
- c) Tissues
- d) Organisms



3. Identify the type of rock that is formed from the cooling and solidification of magma:

- a) Igneous
- b) Sedimentary
- c) Metamorphic
- d) Foliated







## Science - Extension (30 marks)

1. Design an experiment to test the effect of pH on plant growth.

2. What is the process called when an organism's genetic information is passed from one generation to the next?

- a) Mutation
- b) Genetic drift
- c) Natural selection
- d) Heredity

3. Write a short report on the importance of conservation and sustainability in our daily lives.

Be sure to include evidence and examples to support your argument.



# Marking Guide

\* Foundation: 1 mark for correct answer, 0 marks for incorrect answer

\* Core: 2 marks for correct answer, 1 mark for partially correct answer, 0 marks for incorrect answer

\* Extension: 3 marks for excellent answer, 2 marks for good answer, 1 mark for satisfactory answer, 0 marks for inadequate answer

# Differentiation Options

\* Foundation: Provide additional support, such as visual aids, graphic organizers, or one-to-one assistance.

\* Core: Offer challenges, such as extra questions or tasks, to stretch students' knowledge and skills.

\* Extension: Provide opportunities for students to work independently, using open-ended questions or projects that require critical thinking and problem-solving.

# **Bloom's Taxonomy Alignment**

- \* Remembering: Recall basic facts and concepts (foundation)
- \* Understanding: Demonstrate comprehension of concepts and relationships (core)
- \* Applying: Apply knowledge to solve problems or complete tasks (core and extension)
- \* Analyzing: Break down complex information into parts to understand relationships (extension)
- \* Evaluating: Make judgments about the value or quality of information (extension)
- \* Creating: Generate new ideas, products, or solutions (extension)

# Multiple Intelligence Approaches

- \* Linguistic: English questions and tasks
- \* Logical-mathematical: Mathematics questions and tasks
- \* Spatial: Visual aids and graphic organizers
- \* Bodily-kinesthetic: Hands-on activities and experiments (science)
- \* Musical: Not applicable
- \* Interpersonal: Group work and discussions (optional)
- \* Intrapersonal: Self-reflection and self-assessment (optional)
- \* Naturalistic: Real-world applications and scenarios (science and mathematics)

# Advanced Concepts

In this section, we will explore advanced concepts in mathematics, science, and English. These concepts are designed to challenge students and provide a deeper understanding of the subjects. We will begin with mathematics, where students will learn about algebra, geometry, and trigonometry. In science, students will delve into the world of physics, chemistry, and biology, exploring complex concepts and theories. In English, students will analyze literary texts, learn about grammar and syntax, and develop their writing skills.

## Example: Algebraic Equations

Solve for  $x$ :  $2x + 5 = 11$ . This equation requires students to use algebraic techniques to isolate the variable  $x$ . By subtracting 5 from both sides of the equation, students can find the value of  $x$ .

## Science Investigations

Science investigations are an essential part of the curriculum, allowing students to explore scientific concepts and principles through hands-on experiments and activities. In this section, we will provide guidance on how to conduct science investigations, including planning, executing, and evaluating experiments. Students will learn about the scientific method, data analysis, and lab safety.

## Case Study: Photosynthesis

Investigate the effect of light intensity on photosynthesis in plants. This experiment requires students to design and conduct an experiment, collect and analyze data, and draw conclusions about the relationship between light intensity and photosynthesis.

## English Literature

In this section, we will explore English literature, including poetry, prose, and drama. Students will analyze literary texts, identify themes and motifs, and develop their critical thinking skills. We will also provide guidance on how to write effective essays, including planning, drafting, and editing.

## Example: Analyzing Poetry

Analyze the poem "The Road Not Taken" by Robert Frost. This poem requires students to identify themes, motifs, and literary devices, and to develop a deeper understanding of the poet's message and meaning.

## Mathematics Applications

Mathematics has numerous applications in real-world scenarios, including finance, science, and engineering. In this section, we will explore mathematical applications, including problem-solving, modeling, and critical thinking. Students will learn how to apply mathematical concepts to solve real-world problems and develop their analytical skills.

## Case Study: Financial Literacy

Calculate the interest on a savings account. This problem requires students to apply mathematical concepts, such as percentages and ratios, to solve a real-world problem.

## Science and Technology



Science and technology are closely linked, with technological advancements often driven by scientific discoveries. In this section, we will explore the relationship between science and technology, including the impact of technology on society and the environment. Students will learn about emerging technologies, such as artificial intelligence and biotechnology, and develop their critical thinking skills.

### **Example: Renewable Energy**

Investigate the benefits and drawbacks of renewable energy sources, such as solar and wind power. This topic requires students to analyze scientific data, evaluate the impact of technology on the environment, and develop a deeper understanding of the relationship between science and technology.

## **English Language**

In this section, we will explore the English language, including grammar, syntax, and vocabulary. Students will learn about language structures, including clauses, phrases, and sentences, and develop their writing skills. We will also provide guidance on how to use language effectively, including tone, audience, and purpose.

### **Case Study: Language Analysis**

Analyze the language used in a persuasive text, such as a speech or advertisement. This task requires students to identify language features, such as rhetorical devices and tone, and develop a deeper understanding of how language is used to persuade and influence audiences.

## **Conclusion**

In conclusion, this document has provided a comprehensive overview of the UK Primary School Curriculum, including mathematics, science, and English. We have explored advanced concepts, science investigations, English literature, mathematics applications, science and technology, and English language. Students have been provided with numerous examples, case studies, and tasks to develop their knowledge, skills, and understanding of the subjects.

### **Example: Reflective Practice**

Reflect on your learning throughout this document. What have you learned? What challenges have you faced? What skills have you developed? This task requires students to reflect on their learning, identify areas for improvement, and develop a growth mindset.

## **Conclusion**

Well done on completing your homework! We hope you found the tasks challenging and enjoyable. Remember to review your work and ask your teacher if you have any questions or need further clarification.