



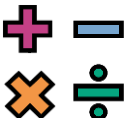


Year 5 – Spring 1

<p>Science</p> 	<p>To be completed during the week beginning 12th January 2026</p> <p>Choose one living thing and create a simple life cycle diagram. Label each stage and write one interesting fact about what happens at that stage. You can draw your diagram by hand or use a computer. Try to include how the animal reproduces and how its life cycle is different from others.</p>
<p>Technology</p> 	<p>To be completed during the week beginning 19th January 2026</p> <p>AI is huge in the world of technology. Think about where you see Artificial Intelligence (AI) in everyday life (for example, voice assistants, recommendation systems, or robots).</p> <p>Task:</p> <ol style="list-style-type: none"> 1. Write down three examples of AI you have seen or heard about. 2. For each example, explain what it does and how it helps people. 3. Bonus challenge: Imagine you could design your own AI to make life easier—what would it do? Draw a picture or write a short description of your idea.
<p>Engineering</p> 	<p>To be completed during the week beginning 26th January 2026</p> <p>We've been learning about forces such as gravity, air resistance, and friction. Your task is to design and make a parachute to investigate how different materials affect air resistance. Instructions: Choose three different fabrics or materials (e.g., paper, plastic bag, cloth). Make parachutes of the same size using each material. Drop them from the same height and time how long each takes to reach the ground. Record your results in a simple table and write a short explanation: Which material slowed the fall the most? Why do you think that happened? Challenge: Can you explain how air resistance and gravity worked together in your experiment?</p>
<p>Arts</p> 	<p>To be completed during the week beginning 2nd February 2026</p> <p>Your challenge is to create a piece of artwork inspired by nature.</p> <p>Instructions:</p> <ol style="list-style-type: none"> 1. Go outside or look through books/online images of natural objects (e.g., leaves, shells, flowers, trees). 2. Choose one object and sketch it carefully, paying attention to its patterns and details. 3. Use colour (pencils, paints, or collage) to bring your design to life. 4. Write one or two sentences about what inspired your choice and how you created your artwork. <p>Challenge: Can you repeat your design to create a patterned background or border?</p>
<p>Maths</p> 	<p>To be completed during the week beginning 9th February 2026</p> <p>To consolidate some of our fractions learning from last term, try these problem-solving questions attached.</p>

Children in Year 5 can bring any STEAM Challenge work they complete into school or submit it to the year group homework email address –
year5homework@watlingprimary.org.uk

Are the statements true or false?

$$\frac{1}{2} = \frac{10}{20}$$

$$\frac{1}{3} = \frac{15}{30}$$

$$\frac{1}{4} = \frac{40}{400}$$

$$\frac{1}{5} = \frac{20}{100}$$

$$\frac{1}{6} = \frac{12}{66}$$

$$\frac{1}{7} = \frac{4}{10}$$

Explain your answers.

Work out the missing numbers.

$$\frac{23}{4} = \frac{\square}{\square}$$

$$23 \div 4 = \text{_____ remainder _____}$$

What do you notice?

How many different ways can you complete the statements?

$$2 \frac{\square}{8} = \frac{\square}{8}$$

$$2 \frac{\square}{5} = \frac{\square}{5}$$

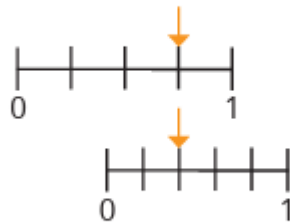
Compare answers with a partner.

What do you notice?

Complete the set of equivalent fractions.

$$\frac{1}{6} = \frac{\square}{12} = \frac{\square}{18} = \frac{4}{\square} = \frac{\square}{30} = \frac{6}{\square} = \frac{7}{\square}$$

Tiny thinks that the number lines show that $\frac{3}{4}$ is equivalent to $\frac{2}{5}$



Is Tiny correct?

Explain your answer.

Use the number cards to complete the equivalent fractions.

$$\frac{4}{6} = \frac{\square}{\square} = \frac{\square}{\square}$$

All the children in a class eat $\frac{1}{3}$ of a pizza at a party.

Altogether, they eat $8\frac{2}{3}$ pizzas.

How many children are there in the class?



$$4\frac{1}{2} \bigcirc 4\frac{1}{5}$$

$$2\frac{4}{5} \bigcirc 2\frac{4}{7}$$

$$5\frac{3}{4} \bigcirc 5\frac{1}{4}$$

$$3\frac{5}{8} \bigcirc 3\frac{7}{8}$$

Work out the missing numbers.

$$\frac{5}{16} + \frac{\square}{8} = \frac{15}{16}$$

$$\frac{\square}{20} + \frac{7}{10} = \frac{17}{20}$$