


Communication, Language and Literacy	Mighty Machines Year 2 Spring One	Mathematical Development
<p>This half term we will be reading, listening to and sharing non-fiction and fiction books based around Mighty Machines and robots. Our first book, No-Bot the robot will inspire us to write our own story and our second book Izzy Gizmo and the invention convention will see us writing a letter. We will also be writing a set of instructions to go along with our third book The Dragon Machine. instructions for making our own dragon machine.</p> <p>We will be learning how to write letters, use time connectives, contractions, learn spelling rules for suffix's and homophones and near homophones. We will also continue our daily grammar or phonics sessions and our practice or Guided Reading sessions.</p> <p>We will be developing our speaking and listening skills in class sessions and in our garage role play area.</p>	<p>Welcome back!</p> <p>This half term, our topic has a Design and Technology theme and we will be thinking about different mechanisms and different types of machines, exploring levers and pulleys and investigating forces.</p> 	<p>Addition and subtraction</p> <ul style="list-style-type: none"> • Add and subtract a two-digit number and tens and a two-digit number and ones. • Add three one-digit numbers • Use partitions of one-digit numbers to bridge through ten on a number line. Record as a number sentence. • Show that addition can be done in any order and subtraction cannot (commutativity) <p>Multiplication and Division</p> <ul style="list-style-type: none"> • Count reliably in 2s,5s, and 10s forwards and backwards. • Recall and use multiplication and division facts for 2x, 5x and 10x tables, including recognising odds and evens. • Solve problems involving multiplication and division using arrays, repeated addition, and mental methods • Use the multiplication (x) and = signs to record number sentences • Share objects equally into different groups, recognising the link with multiplication and arrays.
<p>Spiritual, Moral and Cultural development</p> <p>We will continue to focus on our spiritual, moral and cultural development through assemblies and class sessions and a focus on school rules and setting our own rules for the year. In our Religious education sessions our key concept is Specialness and Special Places</p> <p>We will be learning;</p> <p>To talk about and describe our ideas about special places.</p> <p>To how our ideas about special places relate to our loves and the lives of others.</p> <p>To talk about the concept of <i>specialness</i> in relation to special places.</p> <p>To recognise that church is a special place to Christians to recognise its importance to Christians.</p>	<p>Personal, Social and Emotional learning</p> <p>In our PSHE lessons we are focussing on My Family and Friends. They will be learning ;</p> <p>To share their opinions and to explain their views.</p> <p>To know the different groups they belong to—family groups, friendship groups, community groups etc.</p> <p>To take part in discussions.</p> <p>To consider the value of being a friend and having friends.</p> <p>To recognise, name and deal with their feelings in a positive way. To understand that other people have needs.</p> <p>To work co-operatively with other people. To identify and respect that everyone if different and has needs and feelings.</p> <p>To recognise the worth in others. To experience the joys and happiness of acts of kindness.</p> <p>To discuss individual liberty- what does that mean?</p>	<p>Geometry and Fractions</p> <ul style="list-style-type: none"> • Identify and describe properties of 2D shapes, including line symmetry and number of sides(edges) • Identify and describe properties of 3D shapes, including faces, edges, and vertices • Order and arrange combinations of objects in patterns. • Recognise, find, name, and write fractions as equal parts of a shape. Introduce 13 and 34 of a shape. <p>Measurement</p> <ul style="list-style-type: none"> • Tell the time to five minutes, quarter to and quarter past • Know how many minutes in an hour and hours in a day. • Choose and use appropriate standard units to estimate and measure mass (kg/g) using scales

Science and Environment	Creative Development	Physical Development
<p>We will be focussing on materials and their properties. We will be looking at some of the properties of materials and their uses. We will learn that some materials are natural and that some are manufactured and man-made.</p> <p>We will investigate how the materials can be changed by stretching bending, squashing etc.</p> <p>We will then use our knowledge to decide which materials would be the best for making a mighty machine boat. We will plan which materials will help it float.</p> <p>Finally at the end of the half term we will be looking at Forces and will be holding a Bike and Scooter day in school- details to follow!</p>	<p>This half term our focus will be Design and Technology and we will be investigating mechanisms and how these can help things move. We will be finding out about sliders and levers and we will be designing and evaluating our own moving pictures to use these.</p> <p>In our Music sessions we will be following a unit about Machines and we will continue to learn lots of wonderful songs in our weekly singing assembly.</p>	<p>In our weekly PE sessions we will be focussing on sending and receiving skills. We will look at throwing and catching different sized balls and using different techniques. As well as looking at other ways to send and receive a ball.</p> <p>In our sessions with our class teacher we will be focussing on gymnastics and responding to different types of music. The children will be using their prior skills to develop new sequences to perform and evaluate.</p>
How you can help at home?	Geography	Computing
<p>Talk to your child about the topic and any of the areas covered in this newsletter.</p> <p>Complete homework tasks—There will be two this half term- a machines labelling activity in January and a maths task in February.</p> <p>Please continue to read and practise spellings at home, your support make such a difference to your child's progress.</p> <p>There are lots of events and special days as part of our Mighty Machines topic—please keep a note of the dates as they come out in the Newsletters.</p>	<p>In Geography we will be studying our school and comparing it with another school in the local area.</p> <p>We will consider what makes our school special and finding out what makes another school special.</p> <p>We will be comparing human and physical features of both schools.</p>	<p>The children will be focussing on Control- developing ideas and making things happen.</p> <p>To be able to explain what an algorithm is., and begin to plan and use their own algorithms with a purpose. We will use Scratch Jr. to sequence and debug our own algorithms for sprites that we have created.</p> <p>Children will be able to talk about and evaluate their sequence of instructions, adding steps, text and voice to their sprites within their algorithms to enhance them.</p> <p>Children will be able to plan and create a sequence of instructions to move around a screen or background with a purpose.</p>