Reception Knowledge Organiser ~ Autumn 2

What are robots used for?

We will be learning about real life robots as well as those in story books.

Key Vocabulary

- **Head, legs, arms, body**
- **Metal**
- **Wheel**
- **Sensor-** used to detect something
- **Programme-** press the buttons/keypad to tell the robot what to do
- **Antenna-** used to send or receive signals
- **Motor-** a machine which powers a robot
- **Screw/bolt-** keeps the different parts of a robot together
- **Computer screen-** shows information either pictures or words for you to see
- **Humanoid-** looks like a person but it isn't!

Inventors

- **Charles Rosen-** a scientist from Canada who invented the first robot called 'Shakey'.
  Shakey could plan, find routes and move objects.
  He could think for himself!



- **Honda-** In 2000 Honda created a humanoid robot called Asimo. He was designed to help people and can run, dance, hop and kick a football. Asimo lives in a museum in Japan



Books we will be reading





How is Christmas celebrated around the world?



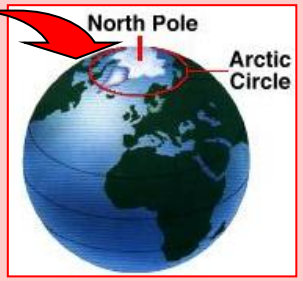
Key Vocabulary

- **Christmas-** a special day when Christians celebrate the birth of Jesus
- **Celebrate-** to do something fun or special with family and/or friends for an important day
- **Reindeer-** a type of deer that lives in cold places around the world
- **Nativity-** the story of baby Jesus being born in Bethlehem.
- **Manger-** a long feeding tray for horses or cows
- **Decorations-** used to make something look nice with lights or colours
- **Igloo-** a round shelter built from blocks of solid snow
- **Ice, snow**

- **Christmas is celebrated on the 25th December**

- **We will learn about how Christmas is celebrated in India, Brazil, Australia and Nigeria!**

- **Father Christmas lives in The Arctic which is at the top of planet Earth.**



Books we will be reading









Communication and Language, and Literacy

We have a daily 'Read, Write, Inc' phonics group session where we learn new letter sounds, practise writing letters correctly, and learn to read and spell simple words.
We will be reading the traditional tale 'The Gingerbread Man.', re-telling and innovating (making our own version)
We will also be reading and discussing stories about robots and Christmas, including The Nativity, as well as writing and posting letters to Father Christmas.

Mathematics

We will be continuing to learn about numbers 1-5 and practising our subitising (recognising small amounts without counting). We will be comparing numbers and exploring different ways of making numbers to 5 including addition facts. We will be using the language of 'fewer' and 'more' to compare 2 sets of objects and learning about adding one more and taking away 1.
We will also be talking about different shapes and learning and using positional language.

Reminders for parents

- Please practise letter sounds with your child using the flashcards we send home. Make sure you log this on to the online reading diary 'Boom Read.'
- You might also want to support your child to write their name correctly, starting with a capital letter.
- Please can you check that all of your child's jumpers and cardigans are named and return any to school which don't belong to your child.

Physical Development

We will be working on our fundamental movement skills in P.E. We will also be practising our motor skills by taking part in a daily 'funky fingers session' dancing along to our favourite songs. Our daily 'wand practise' before lunch time everyday ensures that we are practising important pre-handwriting shapes to aid with letter formation.

Outdoor learning

Your children will be taking part in regular outdoor learning. Making use of our outdoor area and spaces around the school site. We will be making bonfires, doing leaf rubbings and making leaf crowns. We will be creating artwork using natural materials and exploring the story 'Stickman'.
Please ensure that children have a named warm coat with them in school every day.

Enrichment Activities

We will be ticking off 2 activities from our Reception bucket list this half term!

1. Writing and posting a letter
2. Taking part in a performance

You are invited to watch our Reception 'Christmas Celebration' on **Thursday 10th December @2pm**

Expressive Arts and Design

We will be making firework pictures and also looking at the artist Andy Goldsworthy and creating art using natural materials.
We will also be making junk model robots, Christmas cards, and practising drawing people.
We will continue to look at finding the pulse of the music we listen to and talking about how different pieces of music make us feel. We will use instruments to make firework noises and learn a variety of Christmas songs.

Personal, Social and Emotional

We will be talking about road safety and also taking part in anti-bullying week this half term. We will be taking part in a road safety workshop in school with Warwick Bear and learning how to cross the road safely. We will also continue to reinforce our class rules and develop our sharing and cooperative play skills.
We will be introducing 'Zones of Regulation' an approach designed to foster self-regulation and emotional control. The children learn to identify which coloured zone they are in depending on how they are feeling and have a tool box of ideas which can be used to help them to regulate.

Understanding of the World

We will be using our programmable toys, Beebots, and use these to practise programming directions and making maps. We will be looking at the local area around our school and planning our route to the post box for when we post our letters to Father Christmas. We will be talking about Bonfire Night and also the culture and beliefs of those who celebrate Diwali. We will talk about how people celebrate Christmas around the world. We will be looking at some of the different countries that Father Christmas visits as well as finding out about what it is like to live in the arctic and learning about arctic animals. We will be talking about robots, what they can be used for and how they have changed over time. We will also be completing a gingerbread man experiment.