Robots Bitterns Spring Term 2018

Home learning: It is essential that all children are regularly reading at home (we encourage daily). We use the home school book to monitor this so please ensure you record your child's reading. Children who have not been reading at home will do extra reading in class. Each Wednesday maths homework is set either online or via their folder.

As discussed in structured conversations, I will also send home their spelling logs occasionally so that children can review the spellings they have been correcting in class.

Showing time on Fridays this term will focus on children's achievements out of school (swimming, dancing, music, karate etc.) and places of interest. (e.g. museums and exhibitions they have visited) No toys or crafts this term please.

Geography

- How do robots help us find out about our world?
- What do we use to take photos from space?

Art and Design

- If you designed a robot, what would it do?
- Would it make life better?
- Could it be improved?
- What would it look like?
- How would it move?

History

- When was the first computer invented?
- How have computers changed over time?
- How have computers changed our lives?
- How often do we use computers?
- Will they change in the future?

Maths

An overview of the objectives to be covered in maths is provided on a separate sheet. If you would like more details about how we teach these areas, please use the Key stage 1 calculation booklet.

R.E.

What happens at Pesach (Passover) and why is it important for Jews? What does the cross mean to a Christian?

Science

- What is a force?
- How do we use them?
- Why are they important?
- Can things work without them?

Music

Can you make sounds that reflect robots? Can you make a picture through your music?

1.T.

- How do robots work?
- Do robots play?
- Can robots drive cars and fly?
- Where did robots come from?

English

Phonics and SPAG are taught throughout the week focusing on reading, writing and spelling skills. Linked to our topic, children will also be involved in reading and writing activities enabling them to apply these skills in a meaningful way through extended individual and group task

Maths Overview

week	Area of Maths	Year 2 Learning Outcomes	Year 1 learning outcomes
1	NPV Number and place value; MAS Mental addition and subtraction	 NPV.14 Count on and back in ones to 100 NPV.19 Understand place value in 2-digit numbers by creating 2-digit numbers, placing them on a number line and solving place value additions and subtractions NPV.15 Recognise, read and write numbers to 100 MAS.09 Say the number 1 more (≤ 20) MAS.10 Say the number 1 less (≤ 20) MAS.13 Count on 1, 2, 3 more than numbers up to and just beyond 20 MAS.14 Count back 1, 2, 3 from numbers up to and just beyond 20 	 NPV.19 Understand place value in 2-digit numbers by creating 2-digit numbers, placing them on a number line and solving place value additions and subtractions NPV.20 Order and compare 2-digit numbers and say a number between. Use language: equal to, more than, less/fewer than, most, least MAS.20 Add or subtract 10 from 2-digit numbers MAS.26 Add and subtract 9 and 11 to and from 2-digit numbers
2	MAS Mental addition and subtraction; PRA Problem solving, reasoning and algebra; MMD Mental multiplication and division	 MAS.12 Find number bonds to 10 and subitise to 10 MAS.01 Find addition pairs to 5 and subitise to 5 MAS.02 Find addition pairs to 6 and subitise to 6 MAS.03 Find addition pairs to 7 and subitise to 7 MAS.15 Use number facts to 10 to solve problems including word problems MAS.06 Find addition pairs to 8 and subitise to 8 PRA.14 Understand a symbol being used for an unknown quantity PRA.15 Solve missing number problems involving addition and subtraction (≤ 10) PRA.16 Solve word problems involving addition and subtraction MMD.12 Double numbers to 5 and find related halves 	 MAS.12 Find number bonds to 10 and subitise to 10 MAS.23 Add 1-digit to 2-digit numbers, bridging 10 and using known facts MAS.19 Recall number facts to 20; number pairs (4 to 20) and bonds to 10 and 20 MAS.29 Add 1-digit to 2-digit numbers to reach the next multiple of 10 MAS.33 Subtract 2-digit from 2-digit numbers by counting up PRA.28 Use place value and number facts to solve problems
3	MAS Mental addition and subtraction MAS Mental addition and subtraction MAS Mental addition and subtraction	 MAS.13 Count on 1, 2, 3 more than numbers up to and just beyond 20 MAS.16 Add 1-digit to 2-digit numbers and add to next multiple of 10, by counting on 	 MAS.29 Add 1-digit to 2-digit numbers to reach the next multiple of 10 MAS.33 Subtract 2-digit from 2-digit numbers by counting up MAS.12 Find number bonds to 10 and subitise to 10 MAS.19 Recall number facts to 20; number pairs (4 to 20) and bonds to 10 and 20 MAS.21 Find change from 10p and 20p by counting up MAS.27 Find change from 20p and 50p by counting up MAS.28 Add/subtract 2-digit numbers to/from 2-digit numbers by counting on/back PRA.32 Use coins to solve simple problems involving addition, subtraction and giving change MEA.36 Give change using appropriate coins and calculating the amount to be given
4	GPS Geometry: properties of shapes; STA Statistics; MEA Measurement	 GPS.08 Recognise, name and describe cubes, spheres, cones, cuboids, pyramids GPS.09 Sort 3D shapes according to their properties STA.11 Sort objects on to a Venn diagram (two overlapping sets) MEA.13 Begin to recognise units of time (minutes, hours, days, weeks, months, years) 	 GPS.08 Recognise, name and describe cubes, spheres, cones, cuboids, pyramids GPS.28 Identify 2D shapes on the faces of 3D shapes, e.g. circle on a cone and triangle on a tetrahedron GPS.27 Make cubes, cuboids and pyramids using modelling materials GPS.38 Make cuboids, cubes, tetrahedra and pyramids from nets GPD.12 Describe positions using 3D shapes MEA.28 Tell the time to the nearest quarter of an hour using digital and analogue clocks
5	NPV Number and place value; MMD Mental multiplication and division	 NPV.17 Count on and back in 10s from any number up to 100 NPV.18 Estimate a set of objects (≤100) and count in 5s or 10s to check MMD.17 Count in 10s to 100 MMD.18 Count in 5s to 50 MMD.14 Count in 2s to 20 	 NPV.20 Order and compare 2-digit numbers and say a number between. Use language: equal to, more than, less/fewer than, most, least NPV.19 Understand place value in 2-digit numbers by creating 2-digit numbers, placing them on a number line and solving place value additions and subtractions NPV.24 Round 2-digit numbers up or down to the nearest 10 NPV.18 Estimate a set of objects (≤100) and count in 5s or 10s to check