



Year Reception Maths Distance Teaching and Learning

Week beginning: 13.07.20

Lesson 1		
Learning Intention: WALT double a number	Key Vocabulary: Double Amount	What you will need: A computer, tablet or phone Paper + Pencil Video: Maths Lesson 1
Starter		
You will need to watch the video 'El nombre', which looks at how to write numbers 1 and 2. https://www.youtube.com/watch?v=VB6RGn7x4ks Practice writing these numbers with different tools. For example: white board and pen, paint, in a sand tray.		
Main Teaching		
<p>Today we are going to remind ourselves how to double numbers. Do you remember that double a number means adding the same again? So for example if Captain Black Beard had 3 coins and he doubled that amount he would get another 3 and add the two 3's together. So two lots of 3 would be 6 or double 3 would be 6. I'm going to tell you another story about Captain Black Beard and you will need to help with some doubling of numbers...</p> <p>One day Captain Black Beard was on his boat sailing to a far off island in search of treasure, sitting, one on each shoulder, were his cheeky parrots Polly and Pete. As usual, they were chatting away in Black beard's ears, this was driving him crazy! "Stop that dreadful racket!" yelled Black Beard but as usual, they ignored him so he flapped them away. They flew off and sat on the beam and started nibbling on the sails..."Oh, you bothersome pair" grumbled Black Beard and again shooed them away. This time they flew off over the ocean to a nearby island where they met some other parrots and made friends. Polly and Pete each decided to take a friend back to the boat to meet Captain Black Beard. When they arrived on the boat, they started pecking away at the pirate's food sacks. Captain Black Beard couldn't believe his eyes..."Arrrrgh, he growled; now there's 4 parrots, DOUBLE TROUBLE!</p> <p>What if Captain Black beard had had 3 parrots – how many would be double trouble?</p>		
Independent Tasks		
Challenge 1		
Now you need to think of 'double trouble' numbers from 1 to 5. I have written the first one to show you how to do it...		
2 lots of 1 is 2. Double 1 is 2		
Use your fingers or the following double number cards to help you...		

Challenge 2

Now you need to think of 'double trouble' numbers from 1 to 10. I have written the first one to show you how to do it...

2 lots of 1 is 2. Double 1 is 2

Use the following double number cards to help you...

Challenge 3

Now you need to complete challenge 2 and then carry on finding 'double trouble' numbers up to 15. You can carry on as far as you like to challenge yourself!

Lesson 2

Learning Intention:

WALT double a number

Key Vocabulary:

Double
Amount

What you will need:

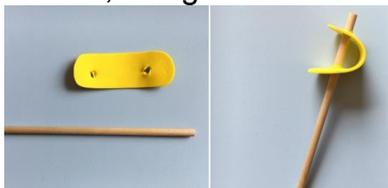
A computer, tablet or phone
Paper + Pencil
Video: Maths Lesson 2
Treasure chest (pot)
Treasure (small items for counting)
A mirror
A small tray of dry sand and a pirate's cutlass, see below or white board and pen/paper and pencil

Starter

You will need to watch the video 'El nombre' included in the lesson video,, which looks at how to write numbers 3 and 4. Practice writing these numbers with different tools. For example: white board and pen, paint, in a sand tray <https://www.youtube.com/watch?v=VB6RGn7x4ks>

Main Teaching

Today we are going to do some more doubling but this time we are going to use a pirate's magic mirror that will **double** a pirate's treasure. You will need a treasure chest (pot), golden coins (any small items for counting), a mirror, a small tray of sand and a pirate's cutlass. You can make a cutlass like this, using a cocktail stick and piece of card...



...or you can just use a white board and pen/ paper and pencil.
Set your magic mirror out like this...



Place one piece of treasure in front of the magic mirror...how many pieces of treasure are there now? Count what you can see. Now write it in the sand as a number sentence like this...



Rub it out and then using a piece of paper with the word double on write in the sand...

double 1 = 2

Similar to this but with the correct numbers...



Independent Tasks

Challenge 1

You need to double the treasure with numbers from 1 to 5. Make sure you record every time you have a different amount of treasure.

Challenge 2

You need to double the treasure with numbers from 1 to 10. Make sure you record every time you have a different amount of treasure.

Challenge 3

You need to double the treasure with numbers from 1 to 15 (higher numbers than this if you want to challenge yourself). Make sure you record every time you have a different amount of treasure.

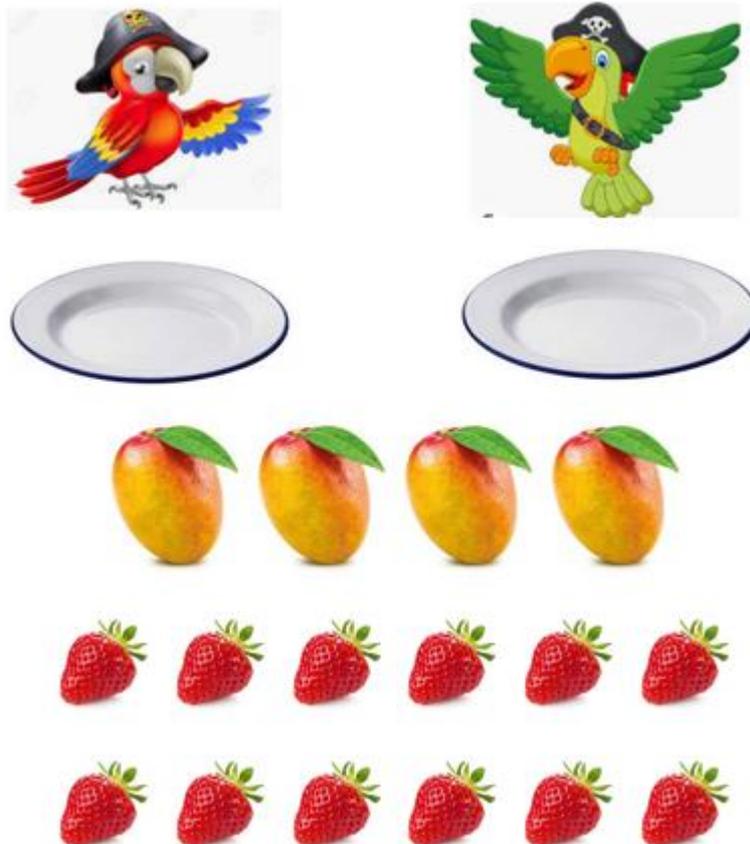


Lesson 3		
Learning Intention: WALT halve a number	Key Vocabulary: Halve / half Equal / equally Fair Odd / even	What you will need: A computer, tablet or phone Paper + Pencil Video: Maths Lesson 3 2 treasure chests (pots) A pile of treasure (small counting objects)
Starter		
You will need to watch the video 'El nombre' included in the lesson video, https://www.youtube.com/watch?v=VB6RGn7x4ks which looks at how to write numbers 5 and 6. Practice writing these numbers with different tools. For example: white board and pen, paint, in a sand tray		
Main Teaching		
<p>This week we have been doubling numbers. Today we are going to do the opposite, which is halve a number. To remind ourselves halving is when we separate something into 2, like when we cut an apple in half we have 2 pieces. However, we have to make sure the 2 halves are the same size, equal, for it to be truly half. Sometime the naughty pirates share their treasure into two treasure chests and say they've shared the treasure into half, fairly but each chest of treasure doesn't have the same amount in, so it's not half and it's not fair!</p> <p>Today we are going to teach the naughty pirates to be fair!</p> <p>You will need 2 treasure chests (pots) and a pile of treasure (small counting objects) count out 10 pieces of treasure and place them between the 2 treasure chests. You now need to share them equally between the 2. Put treasure into each chest until you have the same number of treasure in each chest. How many do you have in each chest? This is half of 10. Write it down like this...</p> <p style="text-align: center;">Half of 10 = 5</p> <p>If you wanted to use the sand and cutlass from yesterday, you could or just write it on your whiteboard.</p> <p>Now count out 9 pieces of treasure and try to share them equally between the 2 treasure chests. What happens? What do you notice? Some numbers you can't share equally, these are called 'odd numbers'.</p>		
Independent Tasks		
Challenge 1		
You need to carry on sharing the treasure from the activity we started. You've tried 10 and 9 pieces of treasure now do 8, 7, 6, 5, 4, 3, 2 and 1 in turn. Don't forget to record each one in the sand as you go along. Also, write down the odd numbers and the even numbers (the numbers that will share fairly).		
Challenge 2		
You need to count out 14 pieces of treasure and share them between the two chests as we've just done. You've tried 10 and 9 pieces of treasure now do 14, 13, 12, 11, 8, 7, 6, 5, 4, 3, 2 and 1 in turn. Don't forget to record each one in the sand as you go along. Also, write down the odd numbers and the even numbers (the numbers that will share fairly).		
Challenge 3		
You need to count out 20 pieces of treasure and share them between the two chests as we've just done. You've tried 10 and 9 pieces of treasure now do 20, 19, 18, 17, 16, 15, 14, 13, 12, 11, 8, 7, 6, 5, 4, 3, 2 and 1 in turn. Don't forget to record each one in the sand as you go along. Also, write down the odd numbers and the even numbers (the numbers that will share fairly).		

Lesson 4		
Learning Intention: WALT halve a number	Key Vocabulary: Halve / half Equal / equally Fair Odd / even	What you will need: A computer, tablet or phone Paper + Pencil Video: Maths Lesson 4 2 plates Small objects for counting/sharing Print out of appropriate speaking frame for challenges

Starter
 You will need to watch the video 'El nombre' included in the lesson video, <https://www.youtube.com/watch?v=VB6RGn7x4ks> which looks at how to write numbers 7 and 8. Practice writing these numbers with different tools. For example: white board and pen, paint, in a sand tray

Main Teaching
 Today we are going to use our skills of halving that we learnt yesterday. The cheeky parrots Polly and Pete have been arguing over their fruit. Polly thinks that Pete has been having more fruit than she has which is unfair and is squawking so much that Captain Black Beard has had enough. He would like to sort this problem out by showing them that he always shares their fruit fairly. On Monday, he has 4 mangoes and 12 strawberries to share between the parrots can you draw the correct amount of each fruit on their plates below so they have half the amount of the two types of fruit on their plates.



On each plate, there should be 2 mangoes and 6 strawberries because half of 4 is 2 and half of 12 is 6.

Independent Tasks

Challenge 1

You need to share the fruit evenly between the two parrots for the rest of the week...



Tuesday – 4 pineapples



Wednesday - 8 kiwi



Thursday – 6 coconuts



Friday – 10 passion fruits



Saturday – 2 pomegranate



Sunday - 12 lychees

Fill in the speaking frame below for each day...

Tuesday	Each parrot will have ___ pineapples on their plate because half of 4 is ____
Wednesday	Each parrot will have ___ kiwis on their plate because half of 8 is ____
Thursday	Each parrot will have ___ coconuts on their plate because half of 6 is ____
Friday	Each parrot will have ___ passion fruits on their plate because half of 10 is ____
Saturday	Each parrot will have ___ pomegranates on their plate because half of 2 is ____
Sunday	Each parrot will have ___ lychees on their plate because half of 12 is ____

Challenge 2

You need to share the fruit evenly between the two parrots for the rest of the week...

Tuesday – 4 pineapples and 6 passion fruits

Wednesday - 8 kiwi and 12 pomegranates

Thursday – 6 coconuts and 16 lychees

Friday – 10 passion fruits and 14 kiwi

Saturday – 2 pomegranates and 8 pineapples

Sunday – 12 lychees and 18 coconuts



Tuesday	Each parrot will have ___ pineapples because half of 4 is ___ and ___ passion fruits as half of 6 is ___
Wednesday	Each parrot will have ___ kiwis because half of 8 is ___ and ___ pomegranates because half of 12 is ___
Thursday	Each parrot will have ___ coconuts because half of 6 is ___ and ___ lychees because half of 16 is ___
Friday	Each parrot will have ___ passion fruits because half of 10 is ___ and ___ kiwi because half of 14 is ___
Saturday	Each parrot will have ___ pomegranates because half of 2 is ___ and ___ pineapples because half of 8 is ___
Sunday	Each parrot will have ___ lychees because half of 12 is ___ and ___ coconuts because half of 18 is ___

Challenge 3

You need to share the fruit evenly between the two parrots for the rest of the week...

Tuesday – 4 pineapples, 6 passion fruits and 10 kiwi

Wednesday - 8 kiwi, 12 pomegranates and 20 lychees

Thursday – 6 coconuts, 16 lychees and 18 passion fruits

Friday – 10 passion fruits, 14 kiwi and 16 pineapples

Saturday – 2 pomegranates, 8 pineapples and 22 kiwi

Sunday – 12 lychees, 18 coconuts and 14 passion fruits

Tuesday	Each parrot will have ___ pineapples because half of 4 is ____. ___ passion fruits as half of 6 is ___ and ___kiwi as half of 10 is ___
Wednesday	Each parrot will have ___ kiwis because half of 8 is ____. ___ pomegranates because half of 12 is ___ and ___ lychees because half of 20 is ___
Thursday	Each parrot will have ___ coconuts because half of 6 is ____. ___ lychees because half of 16 is ___ and ___ passion fruits because half of 18 is ___
Friday	Each parrot will have ___ passion fruits because half of 10 is ____. ___ kiwi because half of 14 is ___ and ___ pineapples because half of 16 is ___
Saturday	Each parrot will have ___ pomegranates because half of 2 is ____. ___ pineapples because half of 8 is ___ and ___ kiwi because half of 22 is ___
Sunday	Each parrot will have ___ lychees because half of 12 is ____. ___ coconuts because half of 18 is ___ and ___ passion fruits because half of 14 is ___



Lesson 5		
Learning Intention: WALT double and halve a number	Key Vocabulary: Double Half/ halve Add / subtract	What you will need: A computer, tablet or phone Paper + Pencil Video: Maths Lesson 5 2 treasure chests (pots) Treasure (small counting items) A dice or number cards to six
Starter		
You will need to watch the video 'El nombre' https://www.youtube.com/watch?v=VB6RGn7x4ks , which looks at how to write numbers 9 and 10. Practice writing these numbers with different tools. For example: white board and pen, paint, in a sand tray		
Main Teaching		
Today we are going to play a game using our doubling and halving skills we've learnt this week. You need to play this game with another family member or against a toy. If you use a toy you'll have to take their turns for them. You will both need a treasure chest each and some treasure and a dice to share. Take it in turns. Roll the dice (or pick a number card, if using), then double the number on the dice (card), then put that amount of treasure in your treasure chest. Keep going until you run out of treasure to put in. Who has the most in their treasure chest? They are the winner!		
Independent Tasks		
Challenge 1		
Play the game again, who won this time? Play it once more and this time have a go at writing down some of the addition number sentences as you go along. For example if you have 6 in your treasure chest, you roll a 2 and double it to 4, you then add 4 to the chest. Your number sentence will be $6 + 4 = 10$		
Challenge 2		
Complete challenge 1 and then play the game again but this time we're halving. Share the treasure out equally, fairly between the 2 treasure chests. Take it in turns to roll the dice. If you can halve the number on the dice take that number of treasure out of your chest. For example if you throw a 4, half of 4 is 2 so take out 2 pieces of treasure. If you can't halve the number on the dice because it's odd you don't remove any treasure this turn. Keep taking turns until one treasure chest is empty. The first person to empty their treasure chest is the winner.		
Challenge 3		
Complete challenge 2 and then have a go at recording the subtraction number sentences as you go along. For example if you have 10 pieces of treasure in your chest and you roll a 6, half of 6 is 3 so you need to take out 3 pieces of treasure from your chest. The subtraction sentence would be $10 - 3 = 7$.		
Review		
This week we have been reminding ourselves of what double and half mean. Have a go at learning this song to help you remember your doubles and halves and use the actions too! To the tune of she'll be coming round the mountain...		
<u>Doubling Song</u> (Actions - using both hands first hold up 1 on each hand then 2 etc...) 1 and 1 together make 2, 1 and 1 together make 2,		

1 and 1 together, 1 and together,
1 and 1 together make 2.

2 and 2 together make 4,
2 and 2 together make 4,
2 and 2 together, 2 and 2 together,
2 and 2 together make 4.

3 and 3 together make 6,
3 and 3 together make 6,
3 and 3 together, 3 and 3 together,
3 and 3 together make 6.

4 and 4 together make 8,
4 and 4 together make 8,
4 and 4 together, 4 and 4 together,
4 and 4 together make 8.

5 and 5 together make 10,
5 and 5 together make 10,
5 and 5 together, 5 and 5 together,
5 and 5 together make 10.

Halving Song

(Actions – using both hands hold up 10 fingers and then put one hand down, then 8 fingers, 4 on each hand etc...)

Half of number 10 is 5,
half of number 10 is 5,
half of number 10, half of number 10,
Half of number 10 is 5.

Half of number 8 is 4,
Half of number 8 is 4,
Half of number 8, half of number 8,
Half of number 8 is 4.

Half of number 6 is 3,
Half of number 6 is 3,
Half of number 6, half of number 6,
Half of number 6 is 3.

Half of number 4 is 2,
Half of number 4 is 2,
Half of number 4, half of number 4,
Half of number 4 is 2.

Half of number 2 is 1,
Half of number 2 is 1,
Half of number 2, half of number 2,
Half of number 2 is 1.