



Year Reception Maths Distance Teaching and Learning

Week beginning: 29.06.20

Lesson 1		
Learning Intention: WALT find number bonds to 10	Key Vocabulary: Addition/adding – joining 2 groups together to make one Altogether Plus More Sum Total Equals	What you will need: A computer, tablet or phone Paper + Pencil 2 boxes or containers or the pictures at the end of these plans (treasure chests) 10 items or pictures at the end of these plans (gold coins) Video: Maths Lesson 1
Starter		
<p>Watch the video about ordering numbers by clicking on the link below...</p> <p>https://www.bbc.co.uk/bitesize/articles/zr6q7nb</p> <p>Listen carefully I'm going to clap a number and you need to count how many claps I do and shout it out. I will then repeat it and tell you the number. Did you get it right? I'll do this with different numbers.</p>		
Main Teaching		
<p>Today we are going to be using our addition skills. Can you remember what addition is? It's when we join two groups of items together to make one group and find out how many there are. How many other words can you think of that we use for adding? I thought of these...</p> <p><i>Altogether, plus, more, sum, total.</i></p> <p>We're now going to practice our number bonds to 10. I have 10 pieces of treasure and two treasure chests. I'm going to put all 10 pieces of treasure into one chest and none into the other. This is my first number bond of 10. $10 + 0 = 10$. Do you recognise the signs I've used to write my number sentence? + means add and = means equals. I'm going to write this down so I don't forget. Now I'm going to move one piece of treasure into the empty chest. How many do I have in each chest now? This is our next number bond, $9 + 1 = 10$. Now I've shown you how to do it you need to complete this as your independent task, until you have all of the number bonds to 10. Don't forget to only move one piece of treasure at a time.</p>		
Independent Tasks		
Challenge 1		
<p>Complete the activity we started making sure you find all the ways of making 10. <i>You should have found 11 different way of making 10 and written them down like this...</i></p> <p>$10 + 0 = 10$ $9 + 1 = 10$ $8 + 2 = 10$ $7 + 3 = 10$ $6 + 4 = 10$ $5 + 5 = 10$ $4 + 6 = 10$ $3 + 7 = 10$ $2 + 8 = 10$ $1 + 9 = 10$ $0 + 10 = 10$</p>		
Challenge 2		
<p>Complete challenge 1 and then hide your piece of paper and see if you can remember them. Again, write them down. Did you remember all 11 ways?</p>		



Challenge 3

Complete challenge 1 and 2 and then hide the number sentences again and this time ask someone in your house to time you. You could do this several times and see if you can beat your time!

Lesson 2

Learning Intention:
WALT find number bonds to 20

Key Vocabulary:
Addition/adding – joining 2 groups together to make one
Altogether
Plus
More
Sum
Total
Equals

What you will need:
A computer, tablet or phone
Paper + Pencil
2 boxes or containers or the pictures at the end of these plans (treasure chests)
20 items or pictures at the end of these plans (gold coins)
Video: Maths Lesson 2

Starter

Watch the video about the addition and equals sign to remind us how they're used...

<https://www.bbc.co.uk/bitesize/topics/zwv39j6/articles/z8hyfrd>

Listen carefully I'm going to ring a bell, how many times do I ring it? Shout it out! I will then repeat it and tell you the number. Did you get it right? I'll do this again with different numbers.

Main Teaching

Today we are going to be using our addition skills. Can you remember any of the other words that we use for adding?

I remembered these...

Altogether, plus, more, sum, total.

We're now going to practice our number bonds to 20. I have 20 pieces of treasure and two treasure chests. I'm going to put half, 10 pieces of treasure into one chest and the other half, 10 into the other. This is my first number bond of 20. $10 + 10 = 20$. Do you remember the signs I've used to write my number sentence? **+ means add and = means equals**. I'm going to write my first number bond down so I don't forget. Now I'm going to move one piece of treasure from one chest into the other chest. How many do I have in each chest now? This is our next number bond, $9 + 11 = 20$. Now move one more piece of treasure from the 9 pieces into the treasure chest with 11 pieces. How many do you have now? Now I've shown you how to do it you need to complete this until you get to one empty treasure chest to one with all the twenty pieces in. Do this as your independent task. Don't forget to only move one piece of treasure at a time.

Independent Tasks

Challenge 1

Complete the activity we started making sure you get to $20 + 0$.

You should have found 11 ways altogether of making 20 and written them down like this...

$$10 + 10 = 20$$

$$9 + 11 = 20$$

$$8 + 12 = 20$$

$$7 + 13 = 20$$

$$6 + 14 = 20$$

$$5 + 15 = 20$$

$$4 + 16 = 20$$



$$\begin{aligned}3 + 17 &= 20 \\2 + 18 &= 20 \\1 + 19 &= 20 \\0 + 20 &= 20\end{aligned}$$

Challenge 2

Complete challenge 1 and then hide your piece of paper and see if you can remember some of them. Again, write them down. How many did you remember?

Challenge 3

There are actually more ways of making 20 that completed in challenge 1. For this challenge we are going to find all the number bonds to 20. Put all 20 pieces of treasure in one chest and none in the other, this is your first number bond. Write it down as a number sentence like this: $20 + 0 = 20$. Then move one piece from the 20 into the empty chest, you now have your next number bond. Write down the number sentence: $19 + 1 = 20$. Carry on moving one piece of treasure at a time until you have 20 in the other chest and 0 in the other chest.

You should have found 21 number bonds to 20 and written them down like this...

$$\begin{aligned}20 + 0 &= 20 \\19 + 1 &= 20 \\18 + 2 &= 20 \\17 + 3 &= 20 \\16 + 4 &= 20 \\15 + 5 &= 20 \\14 + 6 &= 20 \\13 + 7 &= 20 \\12 + 8 &= 20 \\11 + 9 &= 20 \\10 + 10 &= 20 \\9 + 11 &= 20 \\8 + 12 &= 20 \\7 + 13 &= 20 \\6 + 14 &= 20 \\5 + 15 &= 20 \\4 + 16 &= 20 \\3 + 17 &= 20 \\2 + 18 &= 20 \\1 + 19 &= 20 \\0 + 20 &= 20\end{aligned}$$

Lesson 3

Learning Intention:
WALT take away
using up to 10

Key Vocabulary:
Subtraction/take away - take a
number of items away from group
of items
Take away
Minus
Less
Equals

What you will need:
A computer, tablet or phone
Paper + Pencil
1 box or container or the picture at
the end of these plans (treasure
chest)
1 bag or the picture of the sway bag
at the end of these plans
10 items or pictures at the end of
these plans (gold coins)
Video: Maths Lesson 3

Starter

Watch the video clip to remind us what a number bond is. Click on the link below to get to the website...

<https://www.bbc.co.uk/bitesize/topics/zvw39j6/articles/zx3982p>

Print out the number cards below or ask an adult to write numbers to 10/20 on pieces of paper for you to use. Then muddle them up and see if you can put them in order



Main Teaching

Today we are going to be using our subtraction skills. Can you remember what subtraction is? It's when we take a number of items away from group of items and then discover how many are left. Can you think of any other words that we might use for subtracting?

I thought of these...

Take away, minus, less

We're now going to practice taking away numbers from 10. I wonder how many ways we can find. I have 10 pieces of treasure and there's a naughty pirate out to steal my treasure! The pirate's not very strong so to start with he can only take one piece at a time but each day he gets a little stronger and can take more until on the last day he steals all 10!! I have put my 10 pieces in my treasure chest and so far none have been stolen. This is my first subtraction sentence: $10 - 0 = 10$. Do you remember the signs I've used to write my number sentence?

-meanstake away and = means equals. I'm going to write my first subtraction sentence down so I don't forget it. Then night time comes and the naughty pirate creeps in and steals one piece of treasure, pops it in his sack and creeps away! This is my next subtraction sentence. $10 - 1 = 9$. I replace the stolen treasure each day. So the next day he takes 2 pieces, then 2, then 3, 4, 5, 6, 7, 8, 9, 10. Now I've shown you how to do it you need to complete this until the naughty pirate has stolen all my treasure!! Do this as your independent task. Don't forget the naughty pirate steals one extra piece of treasure each day.

Independent Tasks

Challenge 1

Complete the activity we started making sure you write all the subtraction sentences.

You should have written 11 different subtraction sentences like this...

$$10 - 0 = 10$$

$$10 - 1 = 9$$

$$10 - 2 = 8$$

$$10 - 3 = 7$$

$$10 - 4 = 6$$

$$10 - 5 = 5$$

$$10 - 6 = 4$$



$$10 - 7 = 3$$

$$10 - 8 = 2$$

$$10 - 9 = 1$$

$$10 - 10 = 0$$

Challenge 2

Complete challenge 1 and then hide your piece of paper and see if you can remember them. Again, write them down. Did you remember all 11 ways?

Challenge 3

Complete challenge 1 and 2 and then hide the number sentences again and this time ask someone in your house to time you. You could do this several times and see if you can beat your time!

Lesson 4

Learning Intention:
WALT take away using numbers to 20

Key Vocabulary:
Subtraction/take away - take a number of items away from group of items
Take away
Minus
Less
Equals

What you will need:
A computer, tablet or phone
Paper + Pencil
1 box or container or the picture at the end of these plans (treasure chest)
1 bag or the picture of the sway bag at the end of these plans
20 items or pictures at the end of these plans (gold coins)
Video: Maths Lesson 4

Starter

Watch the video on the link to the website below that reminds us of the subtraction symbol
<https://www.bbc.co.uk/bitesize/topics/zwv39j6/articles/ztpmrwx>

Main Teaching

Today we are going to be using our subtraction skills again. Can you remember any of the other words we thought of yesterday for subtracting?

I remembered these...

Take away, minus, less

Today going to practice taking away numbers from 20. I wonder how many ways we can find. I have 20 pieces of treasure and that naughty pirate is back to steal my treasure! The pirate's not very strong so to start with he can only take one piece at a time but each day he gets a little stronger and can take more until on the last day he steals 10!! After that he really can't carry any more (thank goodness). I have put my 20 pieces in my treasure chest and so far none have been stolen. This is my first subtraction sentence today: $20 - 0 = 20$. Do you remember from yesterday the signs that I've used to write my number sentence?

-meanstake away and = means equals. I'm going to write my first subtraction sentence down so I don't forget it. Then night time comes and the naughty pirate is back. He creeps in and steals one piece of treasure, pops it in his sack and creeps away! This is my next subtraction sentence. $20 - 1 = 19$. I replace the stolen treasure each day. So the next day he takes 2 pieces, then 3, then 4, 5, 6, 7, 8, 9, 10. Now I've shown you how to do it you need to complete this until the naughty pirate has stolen half of my treasure, 10 pieces in one night. Do this as your independent task. Don't forget the naughty pirate steals one extra piece of treasure each day.

Independent Tasks

Challenge 1

Complete the activity we started making sure you write all the subtraction sentences.

You should have written 11 different subtraction sentences like this...

$20 - 0 = 20$
 $20 - 1 = 19$
 $20 - 2 = 18$
 $20 - 3 = 17$
 $20 - 4 = 16$
 $20 - 5 = 15$
 $20 - 6 = 14$
 $20 - 7 = 13$
 $20 - 8 = 12$
 $20 - 9 = 11$
 $20 - 10 = 10$

Challenge 2

Complete challenge 1 and then hide your piece of paper and see if you can remember them. Again, write them down. Did you remember all 11 ways?

Challenge 3

There are actually more subtraction sentences taking away from 20 than completed in challenge 1. For this challenge we are going to find all the subtraction sentences from 20. Complete challenge 1 but when you get to the pirate stealing 10 pieces don't stop. The next evening the naughty pirate decides to bring his mate along and together they can carry the 11 away. Again carry on each night taking one more piece of treasure until on the last night they steal all 20 pieces and I have none left!

You should have written 21 subtraction sentences from 20. They should look like this...

$20 - 0 = 20$
 $20 - 1 = 19$
 $20 - 2 = 18$
 $20 - 3 = 17$
 $20 - 4 = 16$
 $20 - 5 = 15$
 $20 - 6 = 14$
 $20 - 7 = 13$
 $20 - 8 = 12$
 $20 - 9 = 11$
 $20 - 10 = 10$
 $20 - 11 = 9$
 $20 - 12 = 8$
 $20 - 13 = 7$
 $20 - 14 = 6$
 $20 - 15 = 5$
 $20 - 16 = 4$
 $20 - 17 = 3$
 $20 - 18 = 2$
 $20 - 19 = 1$
 $20 - 20 = 0$

Lesson 5

Learning Intention:
WALT use a 10's frame to help us add and subtract

Key Vocabulary:
Addition/adding – joining 2 groups together to make one
Subtraction/take away - take a number of items away from group of items
10's frame

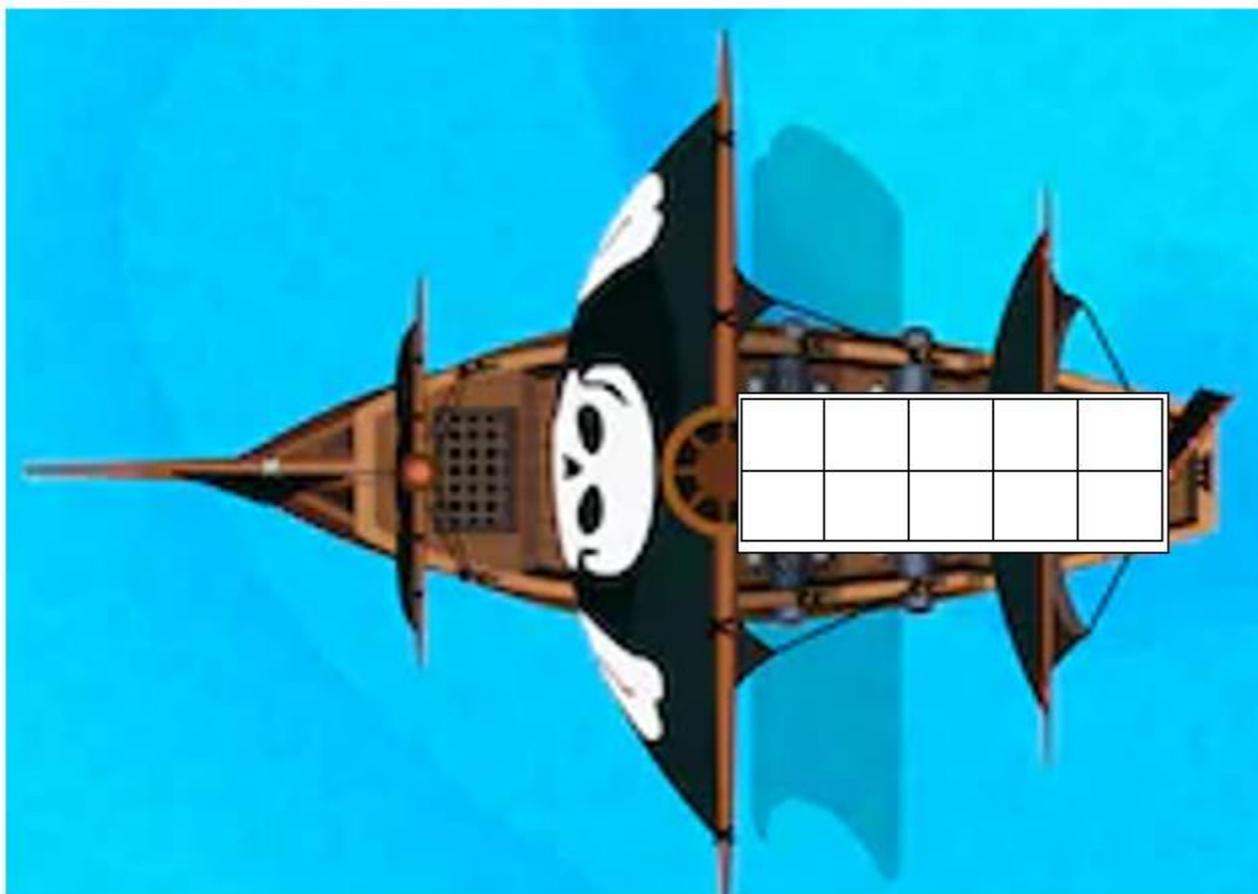
What you will need:
A computer, tablet or phone
Paper + Pencil
Video: Maths Lesson 5
Print out of the boat 10's frame and game board in this lesson
10 small items as counters/pirates
A dice or number cards to 6

Starter

Watch the video about ordering by size by clicking on the link below...
<https://www.bbc.co.uk/bitesize/topics/zknsqk7/articles/zqctb82>

Main Teaching

This week we have been learning about addition and subtraction with numbers up to 20. Today we are going to use both addition and subtraction. We are going to use a 10's frame to help us. The 10's frame today is going to turn into a pirate boat!



So you need to collect 10 small objects to use on your boat (for example buttons, counters, tiny people...) I'm now going to tell a story during which we will need to use addition and subtraction and write out number sentences so you will need a paper and pen too. If you can't print out the 10's frame you can simply draw one (a person in your house can help you with this)

“Once upon a time there lived a very friendly pirate called Black Beard. He lived on an amazing boat on the deep blue ocean. As he was so friendly he often gave his pirate friends a ride from one Island to another but one day, a while ago, one of his pirate friends got knocked off the boat by the swinging mast and nobody noticed. His poor friend had to swim to the Island. This really upset Black Beard so he decided that from that day forward he would always keep a record of

how many pirate passengers got on and off his boat so he would always know how many pirates there were on the boat.”

So today, it's our job to keep a record for Black Beard.

- In the morning Black beard set off with 5 pirate passengers, so put five of the item's you've collected onto your boat 10's frame
- When the boat arrived at the next island 4 pirates were waiting to get **on**. Collect 4 more items and put them next to the boat. Before we let them get on we need to start writing our number sentence for Black Beard's record. *It should look like this... $5 + 4 =$* Then put the items onto the boat 10's frame and add them together. How many are on the boat now? Fill in the rest of the number sentence. $5 + 4 = 9$
- Use this method for the following pirate passengers...
- At the second island 6 pirates decided to get **off**...write your number sentence and take them off your 10's frame
- At the third island 7 pirates got **on**
- At the fourth island 8 pirates got **off**
- At the fifth island 2 got **off**
- At the sixth island 8 got **on**
- At the seventh island 2 got **off**
- At the eighth island 2 got **off**
- At the ninth island 5 got **on**
- And finally at the tenth island at the end of the day all 9 pirates got **off** $9 - 9 = 0$

This is what your list of number sentences should look like...

$$5 + 4 = 9$$

$$9 - 6 = 3$$

$$3 + 7 = 10$$

$$10 - 8 = 2$$

$$2 - 2 = 0$$

$$0 + 8 = 8$$

$$8 - 2 = 6$$

$$6 - 2 = 4$$

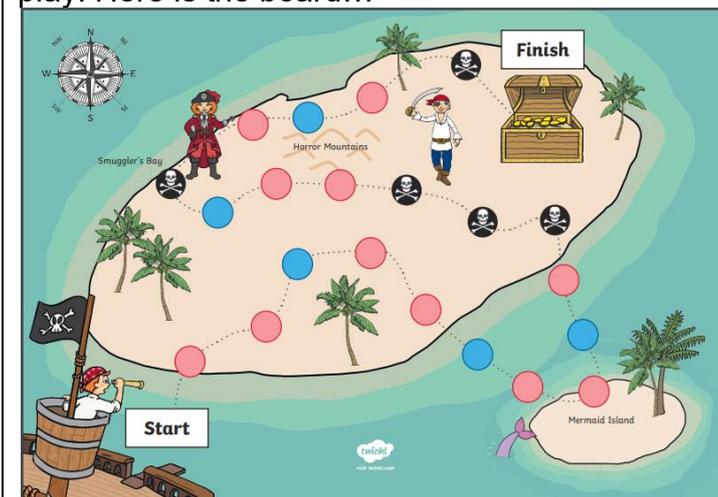
$$4 + 5 = 9$$

Now it's time to choose your challenge for your independent task from 1, 2 or 3

Independent Tasks

Challenge 1

Today you are going to be playing a pirate map game and using your 10's frame to help you play. Here is the board...





The Rules

The aim of the game is to get to the treasure with as many pirates to help you carry it back. Roll the dice (or if you don't have one, pick a number card from 1-6, turn the cards over so you can't see them and every time you chose one put it back and muddle the cards up again) move that many circles along the trail. If you land on a pink circle 1 pirate can join you, put them on your 10's frame. If you land on a blue circle you lose a pirate so you have to take one off your 10's frame. If you land on a skull and cross bones, oh no! You lose all your pirate friends, so take them all off your 10's frame. Good luck!

Challenge 2

Do challenge 1 and as you play write down the number sentences you do on your 10's frame. For example if you had 2 pirates and you land on a blue circle you lose a pirate and only have 1 left, your number sentence would look like this: $2 - 1 = 1$

Challenge 3

Do challenge 2 but this time when you get to the treasure you have to turn round and get your treasure back to the boat! The same rules apply and you need to carry on writing the number sentences.

Review

So this week we've learnt all about adding (addition) and taking away (subtraction). Have a go at solving these number sentences, you can use your 10's frame to help you if you like! Don't forget to look carefully at the symbols to check whether you need to add (+) or take away (-).

$$4 + 2 =$$

$$6 - 3 =$$

$$2 + 5 =$$

$$7 - 4 =$$

$$3 + 7 =$$

These are the answers...

$$4 + 2 = 6$$

$$6 - 3 = 3$$

$$2 + 5 = 7$$

$$7 - 4 = 3$$

$$3 + 7 = 10$$



