Maths – Y2

The maths topic for the next 2 weeks is Time.

Activity 1 – Telling the time to the hour (recap)

Make your own clock – I have added a clock template at the end of document for you to print or copy.

Discuss these questions…
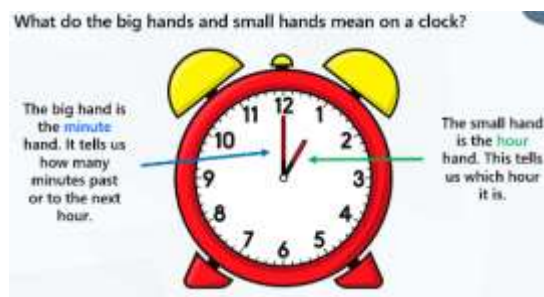What do the numbers on the clock mean?
What do the hands on the clock mean?
What are the different hands on the clock?
12 numbers are shown on the clock, does this mean there's 12 hours in a day? How do you know?

Activity 2 – Telling the time to the hour (Recap)

Recap information about clocks e.g.

Discuss where the minute hand is for o'clock times.

Using the clock you made (or an online clock… see links at the end) – Ask your grown up to say o'clock times and you then make them, then they can make o'clock times on your clock and you read the time.

Challenge –
Ask your grown-up to make an o'clock time, but make a mistake. You then need to correct their mistake e.g.
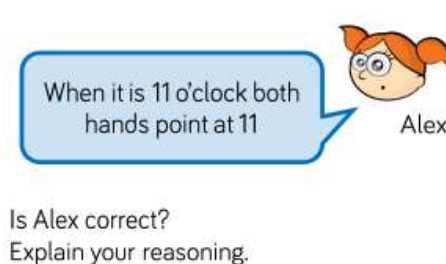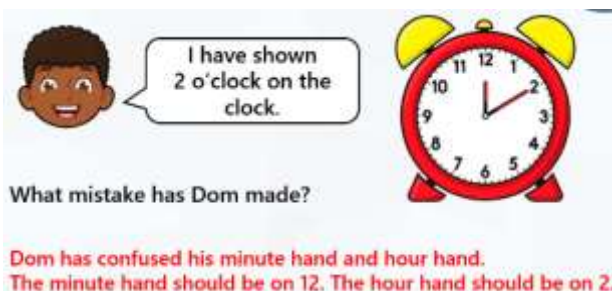
Activity 3 - Telling the time to the half hour (Recap)

Recap what each hand means on the clock.

Say that for half past times, the minute hand is always on the 6... because its half way between the current hour and the next hour. The hour hand is also half way between the 2 numbers (hours).

Recap telling and making time activities as yesterday, but this time use half past times.
Try doing a mixture of o'clock and half past times… can you identify them quickly?

Can you correct mistakes like this?

Mo has positioned the hands to show half past 4.

What mistake has Mo made?

Challenge –

Who is telling the time correctly?

The time is half past 6
Dora

The time is half past 3
Amir

The time is half past 2
Alex

Can you spot the mistakes they've made?

It is half past 11 so the hour hand should be on the 11

Is Alex correct?
Explain your reasoning.

Activity 4 – Quarter to and quarter past the hour

Children will use their knowledge of fractions and turns to identify quarter to and quarter past. They should recognise that the hour hand moves along with the minute hand. Therefore, when the time is quarter past then hour, the hour hand will be just past the hour and when the time is quarter to the hour, the hour hand will be just before the hour.

Show your child this clock and point out that when the minute hand is on the blue side the time is past the hour, and when it's on the pink side the time is to the hour.
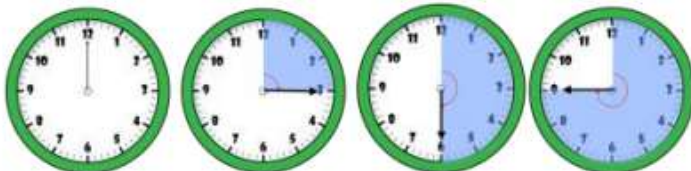
Using the clock you made (or an online clock… see links at the end) – Ask your grown up to say quarter to and quarter past times and you then make them, then they can make quarter to and quarter past times on your clock and you read the time.
Each time explain the position of both hands and how you know its e.g. quarter past 7... the minute hand is on the 3 and the hour hand is just past the 7.
Like this…

The minute hand is pointing to _____
The hour hand is just after _____

The time is quarter_____ seven

The minute hand is pointing to _____
The hour hand is just before _____

The time is quarter _____ two.

Challenge –
- Ask your grown up to make a quarter past or quarter to time… but they have to make a mistake. Can you explain what they did wrong? Can you make the time you're grown up got wrong?
  Repeat with different times.

- Can you complete questions like this?

The minute hand is pointing to three.
The hour hand is just after six.

The time is *quarter past six.*

The minute hand is pointing to nine.
The hour hand is just _____ twelve.

The time is *quarter to twelve.*

- Can you draw the time and write it in words too? You could even make your ow matching game and play pairs or snap with them.

Activity 5 – Telling the time to 5minutes

Practice counting in 5s to 60. This is a fun song that you might want to use…
https://www.youtube.com/watch?v=EemjeA2Djjw

Recap the past and to rule as before…

Using a clock, ask your child to count round I minutes. When the minute hand is pointing to a number, record how many minutes have passed the hour (maybe in a table like this). What do you notice? Will this pattern continue?

Minute hand pointing to	Minutes past the hour
1	5
2	10
3	15

Practice making and reading the time to 5 minute intervals using a clock as you did yesterday. Can you write the time in words too?

Challenge –
- Ask your grown up to make a time using 5 minute intervals… but they have to make a mistake. Can you explain what they did wrong? Can you make the time you're grown up got wrong?
  Repeat with different times.

- Can you draw the time and write it in words too? You could even make your ow matching game and play pairs or snap with them.

Activity 6 – Telling the time to 5minutes

Recap yesterday and practice making and reading them time to 5 minute intervals.

Use a clock to solve problems like these -

If the time is 20 to 10, what number would the minute hand be on? _____

If the time is 10 past 4, what number would the minute hand be on? _____

If the time is 25 to 8, what number would the minute hand be on? _____

If the minute hand is on 11 and the hour hand is nearly at 8, the time is 11 minutes to 8.

What mistake might Kat have made?

It is ten to one.

Dora

It is ten past ten.

Amir

It is ten to two.

Alex

Who is correct? Explain your answer.

Four lots of 5 minutes is the same as quarter of an hour.

Do you agree with Rosie? Explain why.

If I add on 15 minutes onto 25 to 7, the time would be 10 to 7.

Do you agree with Dom?

Buses leave at 5 past and 10 to every hour.

If Mo catches a bus between 9 o'clock and quarter past 11, what buses could he catch?

Activity 7 – Hours and days

Use a timer or a clock with a second hand to count how many seconds there are in a minute.
Draw (or show) every hour on clocks for a full day – how many hours are there in a day? E.g.
Using a clock, count around it in 5s to find out how many minutes there are in an hour.
How many minutes in 2 hours?
How many hours in 3 days?

Can you record your answers like this?

There are _____ seconds in a minute.

There are _____ minutes in an hour.

There are _____ hours in an day.

Can you answer questions like this... If we start at midnight, what is the next hour? Is this morning or afternoon? How do you know?

Can you match converted times like these? You can draw lines to match them or you can make cards and match them that way.

1 hour and 5 minutes.	70 minutes.	90 minutes.	1 hour and 45 minutes.
1 hour and 20 minutes.	80 minutes.	105 minutes.	1 hour and 40 minutes.
1 hour and 10 minutes.	65 minutes.	100 minutes.	1 hour and 30 minutes.

Now write these sentences out and complete them.

1 hour and 15 minutes = _____ minutes.   ____ hour and _____ minutes = 90 minutes.

1 hour and 50 minutes = _____ minutes.   ____ hour and _____ minutes = 70 minutes.

1 hour and 25 minutes = _____ minutes.   ____ hours and _____ minutes = 125 minutes.

1 hour and 35 minutes = _____ minutes.   ____ hours and _____ minutes = 140 minutes.

Challenge –

Tommy: There must be 12 hours in a day because we start from midnight and go up to 12 o'clock then start again from 1

Do you agree with Tommy? Explain why.

Dom says,

2 hours and 55 minutes is equal to 165 minutes.

Do you agree with Dom? Explain your answer.

Activity 8 – Find duration of time

Can you work out the duration of events/activities? E.g.

Start	End	Time passed	Duration
			_____ minutes
			_____ minutes
5 past 2	5 to 3		_____ minutes

Solve problems like – I left the house at quarter past 3. You arrive at the shop at five to 4. How long was your journey?

If an event starts at 4 o'clock and finishes at 10 to 5, how long did it last?

| 45 minutes | 50 minutes | 55 minutes |

If an event starts at 10 to 6 and finishes at quarter past 6, how long did it last?

| 15 minutes | 20 minutes | 25 minutes |

If an event starts at quarter past 1 and finishes at 10 to 2, how long did it last?

| 35 minutes | 40 minutes | 45 minutes |

If an event starts at 25 to 12 and finishes at 5 past 12, how long did it last?

| 30 minutes | 35 minutes | 40 minutes |

Challenge –

Aimee is planning her birthday. She wants to plan something to do from 9am to 5pm.
Here are the things she wants to do:
- Visit the zoo (3 hours)
- Got to Pizza palace (1 hour and a half)
- Have breakfast (half an hour)
- Play party games (1 hour)
- Watch a film (2 hours)

Create a timetable for Aimee's day. Ask someone else in your house to create on too and compare them, are they the same?

Activity 9 – Comparing durations of time

Children can explore ways to work out durations of time most efficiently e.g. empty number lines and using their knowledge that there are 60 minutes in an hour.

Make some time cards like these and find the shortest/longest time?
Put them in order from longest to shortest?

1 hour	40 minutes	Half an hour
55 minutes	Three quarters of an hour	35 minutes
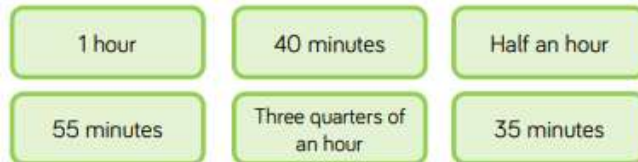
Use the table to complete the sentences.

Can you make your own table of TV shows or activities and write sentences to describe the duration?

TV Show	Starts	Ends
Pop World	3 o' clock	Twenty to 4
Animal Patrol	Half past 6	Five to 7
Super Cars	Quarter past 8	Five past 9

_____ is the shortest TV show.

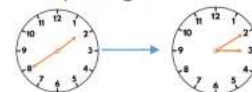_____ is longer than _____ and _____

Challenge –

Rosie has an hour for her lunch break. If she takes 10 minutes to eat her lunch, does she have enough time to complete all of the playground activities?

Activity	Duration
Skipping	7 minutes
Ball skills	10 minutes
Treasure hunt	21 minutes
Trim trail	19 minutes

How do you know?

The clocks show the start and end time of the film Super Dog.

The film Crazy Cat starts at quarter past 1 and ends at quarter to 3

Teddy says,

Super Dog must be the longest film, because it ends the latest.

Do you agree with Teddy? Explain why.

Activity 10 –

Recap anything you found tricky or the extra challenges, then play these time games…

https://mathsframe.co.uk/en/resources/resource/117/telling-the-time-in-words

https://www.sheppardsoftware.com/mathgames/earlymath/on_time_game1.htm

https://www.bbc.co.uk/bitesize/topics/zhk82hv

http://www.ictgames.com/mobilePage/hickoryDickory/

Online interactive clocks

https://www.topmarks.co.uk/time/teaching-clock

https://www.visnos.com/demos/clock

http://www.ictgames.com/mobilePage/clock/

Online interactive stopwatch

https://www.online-stopwatch.com/full-screen-stopwatch/

Blank clock templates

https://www.teachingideas.co.uk/time/blank-clock-templates

videos/TV programmes

https://www.youtube.com/watch?v=NS-2dUpkoHA

https://www.youtube.com/watch?v=1fx7URfIGh8

https://www.youtube.com/watch?v=PAqaRrS2TtY

https://www.bbc.co.uk/teach/class-clips-video/maths-ks1-ks2-round-the-clock/zj6xjhv

songs

o'clock - https://www.youtube.com/watch?v=g6tJAy_7AL4

o'clock & half past - https://www.youtube.com/watch?v=MaVgBjVh4b8

o'clock, half past, quarter to/past - https://www.youtube.com/watch?v=k1XV9l3P8SU

5min intervals - https://www.youtube.com/watch?v=h6RNkQ7lU8Y
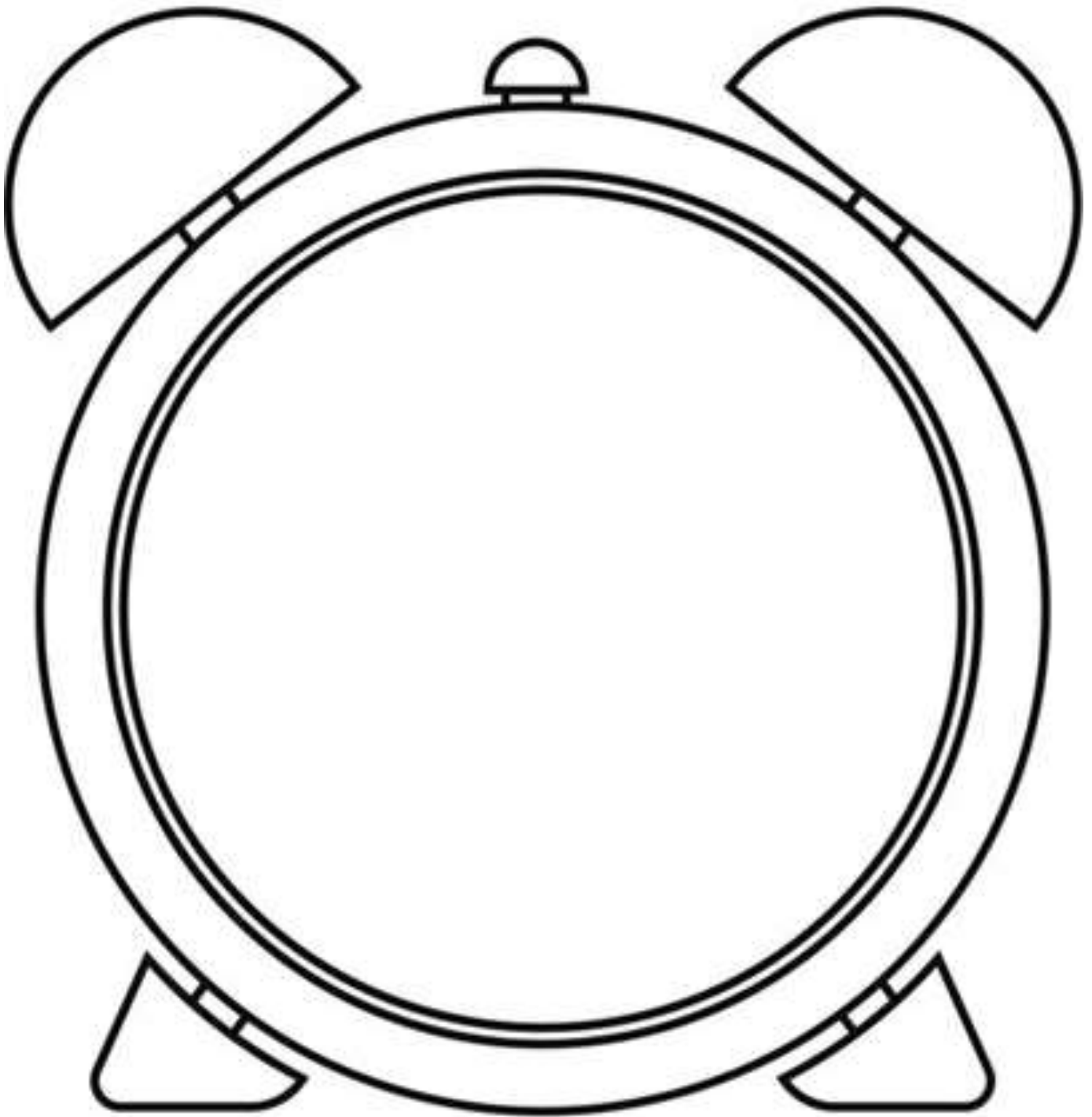
Pin both hands in the centre so they are able to move around the clock.