

MATHS IN THE MORNING 2: TIME (Friday 2nd February 2018)

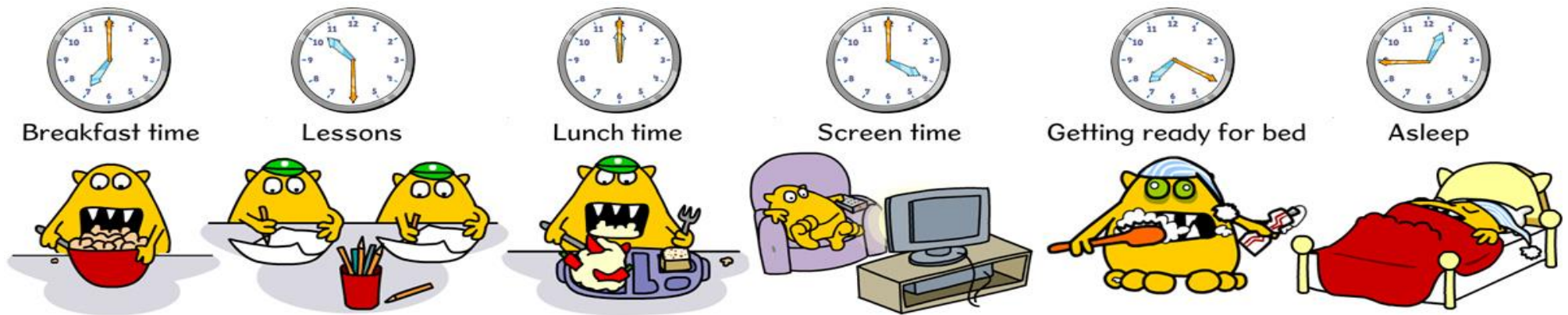
Expectations by Year Group:

Measurement



TELLING THE TIME					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
tell the time to the hour and half past the hour and draw the hands on a clock face to show these times.	tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times.	tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks	read, write and convert time between analogue and digital 12 and 24-hour clocks (appears also in Converting)		
recognise and use language relating to dates, including days of the week, weeks, months and years	know the number of minutes in an hour and the number of hours in a day. (appears also in Converting)	estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes, hours and o'clock; use vocabulary such as a.m./p.m., morning, afternoon, noon and midnight (appears also in Comparing and Estimating)			
			solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days (appears also in Converting)	solve problems involving converting between units of time	

Introducing the concept of time



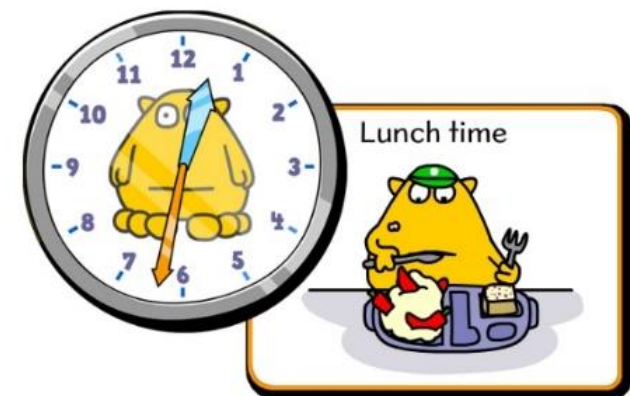
As we know, children learn best when they're having fun so anything you can do to incorporate time into everyday activities that your child enjoys will make the process much easier – introduce one concept at a time, use a mix of resources and a variety of fun techniques to keep things interesting.

Here's some ideas to try...

Break it down

Before jumping into the details of a clock face, start with the general concept of time – morning, afternoon, evening. Initially talk about activities that happen at certain times of day e.g. “we eat breakfast in the morning” and “we go to sleep at night”.

You can then move on to asking your child when certain things happen – this starts off the idea of blocking time into sections. Why not incorporate story books with a time theme into your bed-time routine too.



Get to grips with time duration

To kick start your child's understanding of the passage and tracking of time, make a habit of pointing out how long things take in everyday life such as cleaning your teeth, eating breakfast or how long until you need to leave the house.

You could make a point of timing some of your child's favourite activities to help them connect more with the passage of time – do some baking together and set the oven timer, announce that their programme will be on the TV in 10 minutes and set an alarm or stopwatch.



Reading clock-faces – don't jump in with digital



We're surrounded by digital clocks everywhere these days – on mobiles, computers, TVs, alarm clocks, but it's actually easier to learn how to tell the time with an analogue clock rather than a digital one.

Analogue clocks lend themselves to the better understanding of time because of the constantly moving hands. The visual impact of the clock face also makes comprehension easier i.e. seeing the sections of the clock and matching this to counting in 5 minute intervals.

Top Tip: *If your child has a digital clock in their room, it may be worth considering changing it for a traditional clock face. Perhaps you could let them pick a new watch as an opportunity for them to engage with their new challenge!*

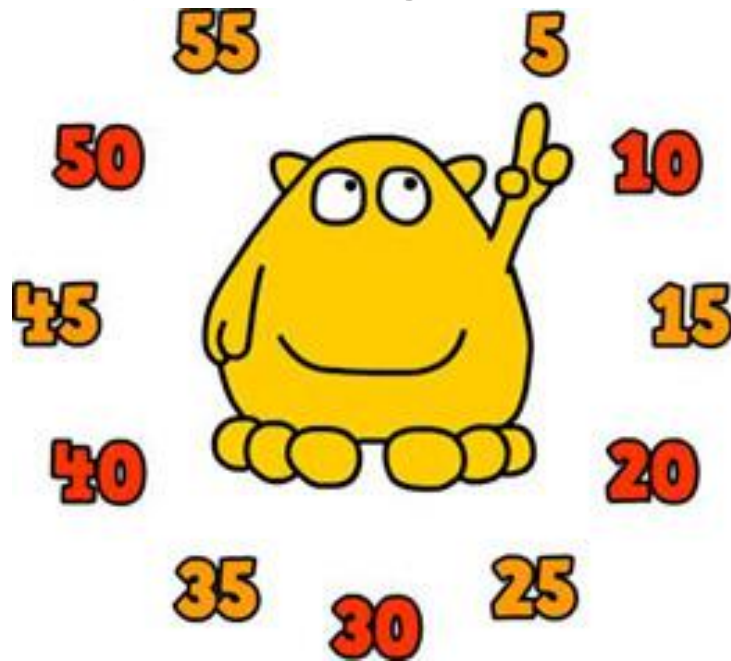
Here's how you can start practising...

Start making a habit of pointing out the time on a clock when events happen in your day, to introduce what that time looks like. Move on to asking your child to tell you what a certain time looks like: "What will the clock look like at 1 o'clock" (or more tricky "in 15 minutes") or "when it's time to play?".

Once these basics are established, let your children remind you when it is time to do something... You may well find that they will pick this up especially easily if it's something they're really looking forward to, perhaps not so quickly if you've asked to be reminded when it's time for bed!

You could make a paper plate clock with movable pipe-cleaner hands as a fun project to bring your clock-face to life; there are plenty of templates for this available online. The fact that Roman numerals also translate to numbers on a clock can also be a tricky thing for children to understand so include both on your paper plate clock as seeing them alongside each other will help.

Why counting is essential for learning how to tell the time



To help the process of learning how to tell the time, it is essential for children to be able to count from 1 to 60 in the correct order.

Double-digit numbers can be particularly difficult to remember in the right order so try to introduce counting into everyday life as much as possible – point out numbers wherever you see them and ask your child to repeat the numbers back to you.

Once you've cracked 1-60, move on to counting in groups of 5 – remember to point out that when you count in fives, every number ends in a 5 or 0. The rhythm in songs can help to make this more fun! There are many songs available on [You Tube](#) to bring the 5 times table to life. When your child is comfortable with this, start pointing to the numbers on a clock face as you sing along to tie the two things together.

Ideas for interactive games online

https://mathsframe.co.uk/en/resources/resource/116/telling_the_time#

This site can help you to read the time on an analogue clock. Different levels, including: reading time to the nearest hour, half hour, quarter hour, five minutes or minute. Options include 24 hour clock.

https://mathsframe.co.uk/en/resources/resource/117/telling_the_time_in_words#

A game where you need to tell the time in words. Use language such as 'o'clock', 'half past' and 'quarter to' and compare the analogue time to digital time. The site works very well on an interactive whiteboard.

<http://flash.topmarks.co.uk/2238>

A game to help you tell the time. Read the time in words and then stop the clock when the hands are in the matching position. You can adjust the speed of the hands.

<http://flash.topmarks.co.uk/5262>

Test your knowledge of telling the time and the 24 hour clock by entering the digital times by reading an analogue clock.

<http://flash.topmarks.co.uk/4705>

Set the clock at o'clock or half past times on an analogue clock face. You need to read the digital time in the questions carefully.

http://www.bbc.co.uk/bitesize/ks1/maths/telling_the_time/play/popup.shtml

A telling the time game where you need to read the questions carefully to work out the answers. Good for developing the vocabulary associated with time. Uses analogue and digital representation.

<https://www.homeschoolmath.net/online/clock.php>

This is an annotated and list of online games, tools, worksheets, and activities that you can use to help your children tell time or read the clock, practice reading calendars, and calculating elapsed time.