

Hello Year 4!

**It's week 5 of our online learning. We hope you're giving it your best go!
We have set up your learning for the next week as daily slides for you to follow.**

Please follow the instructions on each page to help you - we look forward to hearing about how you have got on!

Miss Hill and Mrs Tally

Notes for Maths Online Learning

- You will need a pencil and a piece of paper, if you have a pad you can keep working from this would be ideal.
- All MyMaths Online lessons will have unlimited availability for you to complete. We will be able to access it each day to see how you got on and if you have completed the task we have set.
- After some sessions there will be a '**extra**' activity if you would like some additional reasoning work to do.
- We will endeavor to provide lessons and activities which you will not need to print off.



St Catherine's Classroom Beliefs

- Mistakes are valuable.
- Everyone can learn maths to the highest level.
- Questions are really important.
- Depth is more important than speed.
- Maths is about making connections.

Session 1



Measurement: Time

Time is a maths concept that can be quite challenging.

If your child is finding it tricky, making an analogue clock out of a cereal box, using a pin or split pin (if you have one). Here are some ideas to help if you need them

<https://www.hellowonderful.co/post/9-creative-diy-clocks-to-help-kids-tell-time/>

- How many minutes in an hour, half an hour, quarter of an hour
- Estimating which activities may take a certain length of time
- Writing time from analogue to digital.
- Children recap the number of minutes in an hour and seconds in a minute from Year 3.
- They use this knowledge, along with their knowledge of multiplication and division to convert between different units of time.

Measurement: Time

If you want to recap telling the time, I have allocated Year 3 Telling The Time lessons on MyMathsOnline for you to practise.

Lesson | Telling the time 2

	Chapter title	
1	Units of time	>
2	Guess how long	>
3	Multiple choice	>
4	Moving forwards	>
5	3 questions	>
6	Moving forwards – more examples	>
7	3 more questions	>

Objectives:

- Using seconds, minutes and hours
- Estimating how long times are

Monday 18th May

Maths Chat

What activity might last one hour/minute/second?

How many minutes are there in an hour?

How can we use a clock face to check?

How could we count the minutes?

How many seconds are there in one minute?

What could we use to check?

How many minutes in **4** hours? How many seconds in **4** minutes?



TOP TIP

To solve problems
make sure they're
all in the same unit
of measure.

E.g. all minutes or
all seconds

Monday 18th May

One Hour	One Minute	One Second

Draw a table like the one above and sort the following activities into the correct columns:

Clap
Swimming lesson
Maths lesson

Run round the playground
Blink
Tie your laces

Click your fingers
PE lesson

Monday 18th May

One hour = ____ minutes

One minute = ____ seconds.

Two hours = ____ minutes

Three minutes = ____ seconds.

Half an hour = ____ minutes

____ minutes = 240 seconds

Which maths skills did you make links with to help you work out the calculations above?

Could you write any of them as a number sentence?

E.g. Two hours = 1 hour $\times$ 2 = 1 hour + 1 hour

Monday 18th May

Josh reads a chapter of his book in 5 minutes and 28 seconds.
Tom reads a chapter of his book in 300 seconds.
Who reads their chapter the quickest?

Monday 18th May

Jack takes part in a sponsored silence.

He says,



If I am silent for five hours at 10p per minute, I will raise £50

Do you agree with Jack?

Explain why you agree or disagree.

Dora says,



To convert hours to minutes, I multiply the number of hours by 60

Is she correct? Can you explain why?

Monday 18th May

Five friends run a race.

Their times are shown in the table.

Name	Time
Eva	114 seconds
Dexter	199 seconds
Teddy	100 seconds
Whitney	202 seconds
Ron	119 seconds

Which child finished the race the closest to two minutes?

What was the difference between the fastest time and the slowest time?
Give your answer in minutes and seconds.

St Catherine's Classroom Beliefs

- Mistakes are valuable.
- Everyone can learn maths to the highest level.
- Questions are really important.
- Depth is more important than speed.
- Maths is about making connections.

Session 2



Measurement: Time

- Children recap the concept of a year, month, week and day from Year 3.
- They use this knowledge, along with their knowledge of addition, subtraction, multiplication and division to convert between the different units of time.

Make yourself a cheat sheet or poster of all the time facts you know are important and will need to use to support your learning!

E.g. 60 seconds = 1 minute

7 days = 1 week



Tuesday 19th May

Maths Chat:

How many days are there in a week?

How many days are there in each month?

How many weeks in a year?

How many days are there in _____ weeks?

What calculation do we need to do to convert days to weeks/weeks to days?

How many months/weeks/days are there in **3** years?



Tuesday 19th May

Use a calendar to help you complete the sentences.

There are ____ months in a year.

There are ____ days in February.

____ months have 30 days, and ____ months have 31 days.

There are ____ days in a year and ____ days in a leap year.

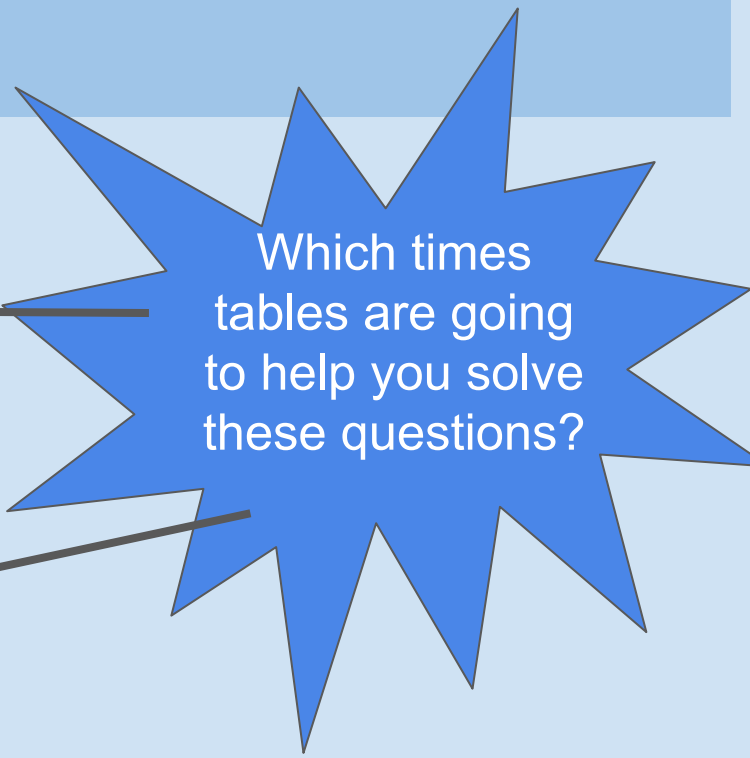
Use this Year!



Tuesday 19th May

Complete the table.

Number of days	Number of weeks
	5
49	
	12



Which times tables are going to help you solve these questions?

Sally is 7 years and 2 months old.
Macey is 85 months old.
Who is the oldest?
Explain your answer.

I know that _____ is the oldest because...

Tuesday 19th May

Amir, Rosie and Jack describe when their birthdays are.

Amir says,



My birthday is in exactly two weeks.

Rosie says,



My birthday is in exactly 2 months.

Jack says,



My birthday is in 35 days.

Use the clues to work out when their birthdays are if today is the 8th June.

Wat resource have you got in your house that could help you solve this problem??



Tuesday 19th May

Always, sometimes, never?

There are 730 days in two years.

True or false?

- 3 days > 72 hours.
- $2\frac{1}{2}$ years = 29 months
- 11 weeks 4 days < 10 weeks 14 days

St Catherine's Classroom Beliefs

- Mistakes are valuable.
- Everyone can learn maths to the highest level.
- Questions are really important.
- Depth is more important than speed.
- Maths is about making connections.

Session 3



Measurement: Time

- Children convert between analogue and digital times using a format up to 12 hours.
- They use a.m. and p.m. to distinguish between times in the morning and afternoon.
- They understand that how many minutes past the hour determines the digital time.
- It is important for children to recognise that digital time need to be written in 4-digit format. For example, 09:30 a.m. not 9:30

Wednesday 20th May

Maths Chat:

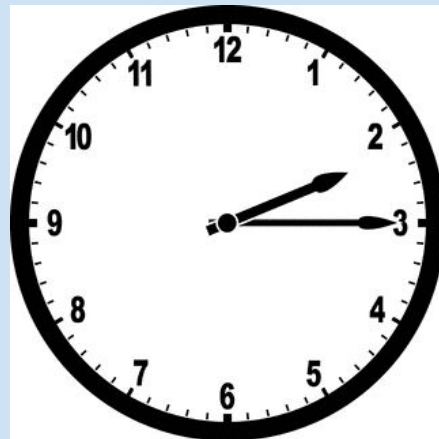
What time is the analogue clock showing?

How many minutes is it past the hour?

How can you count the minutes efficiently?

How do we record each time in digital format?

What does a.m./p.m. mean?



Wednesday 20th May



The time is quarter past 10.

This can also be written as 15 minutes past 10.

The digital time is 10:15.

Write each of these times in the digital format.



Wednesday 20th May

Record the time of each activity in digital format.

Netball	 p.m.	
Football	 a.m.	
Rock climbing	 p.m.	
Roller disco	 a.m.	

Wednesday 20th May

Annie converts the analogue time to digital format.

Here is her answer.



Explain what Annie has done wrong.
What should the digital time be?

Annie has got the wrong answer because....

The digital time should be _____

Wednesday 20th May

Jack arrives at the train station at the time shown in the morning.



Which trains could he catch?

Destination	Departs
York	07 : 10 a.m.
New Pudsey	09 : 25 a.m.
Bramley	09 : 42 a.m.
Leeds	10 : 03 a.m.

How long will Jack have to wait for each train?

St Catherine's Classroom Beliefs

- Mistakes are valuable.
- Everyone can learn maths to the highest level.
- Questions are really important.
- Depth is more important than speed.
- Maths is about making connections.

Session 4



Measurement: Time

- Converting time (Days, Weeks, Months, Years)
- Making links with 7 and 12 times tables
- Using number in real life contexts



Thursday 21st May

We will be learning using MyMaths Online.
Follow the lesson and complete the activity

Go through the lesson **Time Conversions 1**, steps 1 - 9.

This is interactive, you can click and type to check your understanding!

 Lesson | Time conversions 1

	Chapter title
1	
2	1 Converting months and years >
3	2 Conversion calculations: years and months >
4	3 Real-life problems: years and months >
5	4 Pairs game >
6	5 Converting weeks and days >
7	6 Conversion calculations: days and weeks >
8	7 Real-life problems: days and weeks >
	8 Pairs game >

Objectives:

- Solving problems involving converting between units of time: months and years; days and weeks

1

2

3

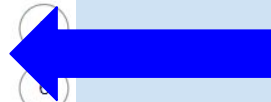
4

5

6

7

8



Thursday 21st May

We will be learning using MyMaths Online.
Follow the lesson and complete the activity

 Online Homework | Time conversions 1 Menu

Q1

0
8

Q1 – Time conversions

Convert from months to years and months.

years

0 1 2 3 4 5 6 7 8 9 10 11 12

months

0 12 24 36 48 60 72 84 96 108 120 132 144

49 months = year(s) month(s)

128 months = year(s) month(s)

131 months = year(s) month(s)

61 months = year(s) month(s)

Q2

0
4

No calc

Total

0
12

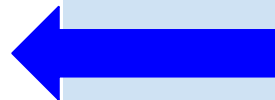
[8]

Mark it

Now have a go at the **Time Conversions 1** activity!

We look forward to seeing
how you got on!

Good Luck!



St Catherine's Classroom Beliefs

- Mistakes are valuable.
- Everyone can learn maths to the highest level.
- Questions are really important.
- Depth is more important than speed.
- Maths is about making connections.

Session 5



Friday 22nd May

Teaching Notes

Measurement: Time

- Converting time (Hours and minutes, minutes and seconds)
- Making links with times tables
- Using number in real life contexts

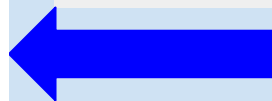


Friday 22nd May

We will be learning using MyMaths Online.
Follow the lesson and complete the activity

Go through the lesson **Time Conversions 2**, steps 1 - 9.

This is interactive, you can click and type to check your understanding!



 Lesson | Time conversions 2

	Chapter title	
1		1
2	1 Converting hours and minutes >	2
3	2 Conversion calculations >	3
4	3 Real-life problems: hours and minutes >	4
5	4 Pairs game >	5
6	5 Converting minutes and seconds >	6
7	6 Conversion calculations >	7
8	7 Real-life problems: minutes and seconds >	8
9	8 Pairs game >	9
	9 Time facts >	

Objectives:

- Solving problems involving converting between units of time: hours and minutes; minutes and seconds

Friday 22nd May

We will be learning using MyMaths Online.
Follow the lesson and complete the activity

The screenshot shows the MyMaths Online interface for a 'Time conversions 2' activity. The top bar includes the 'Online Homework' logo and a 'Menu' button. The main content area is divided into two sections: 'Q1 - Time conversions' and 'Q2'. Q1 asks to 'Convert between minutes and hours' and contains two problems: '8 hours = minutes' and '621 minutes = hour(s) minute(s)'. Q2 asks to 'Convert between seconds and minutes' and contains two problems: '6 hours = minutes' and '382 minutes = hour(s) minute(s)'. Below these, there are two more problems: '8 minutes = seconds' and '157 seconds = minute(s) second(s)'. At the bottom, there is a number line from 0 to 720 in increments of 60, with numbers 0 through 12 highlighted in red above the line. A 'Mark it' button is located at the bottom right of the interface.

Online Homework | Time conversions 2

Q1 Q1 - Time conversions
Convert between minutes and hours.

8 hours = minutes 621 minutes = hour(s) minute(s)

Q2
6 hours = minutes 382 minutes = hour(s) minute(s)

Convert between seconds and minutes.

8 minutes = seconds 157 seconds = minute(s) second(s)

1 minute = seconds 254 seconds = minute(s) second(s)

Total
0 1 2 3 4 5 6 7 8 9 10 11 12
0 60 120 180 240 300 360 420 480 540 600 660 720

[12]
Mark it

Now have a go at the **Time Conversions 2** activity!

We look forward to seeing
how you got on!

Good Luck!



Answers

18.5.20

One Hour	One Minute	One Second
swimming lesson maths lesson PE lesson	run round the playground tie shoe laces	clap blink click your fingers

One hour = 60 minutes, One minute = 60 seconds, Two hours = 120 minutes,
Three minutes = 180 seconds, Half an Hour = 30 minutes, 4 minutes = 240 seconds

Josh = 328 seconds = 5 minutes and 28 seconds **Josh is quickest**

Tom = 300 seconds = 5 minutes

Jack is incorrect. There are 60 minutes in an hour so $60 \times 10p = 600p$ or £6 $£6 \times 5 = £30$

Dora is correct. For example 1 hour = 60 minutes $1 \times 60 = 60$ 2 hours = 120 minutes $2 \times 60 = 120$

Ron was the closest to two minutes, as he is one second quicker than 2 minutes (120 seconds).
Fastest time 100 seconds, slowest time 202 seconds. The difference between the fastest and slowest time is 1 minute and 42 seconds.

Answers

19.05.20

12 months in a year, 29 days in February, 4 months have 30 days, 7 months have 31 days, 365 days, 366 leap year.

35 days = 5 weeks, 49 days = 7 weeks, 84 days = 12 weeks

Sally is 86 months (7yrs and 2 months) Macey is 85 months (7yrs and 1 month)
Sally is older.

Amir – 2 weeks is equal to 14 days so his birthday is 22nd June. Rosie – 8th August Jack – there are another 22 days left in June plus 13 in July, so his birthday is 13th July.

Sometimes – if both of the years are not leap years this is true. If one is a leap year then there will be 731 days in the 2 years.

False – 3 days is equal to 72 hours False - 2 1 2 years is greater than 29 months True

Answers

20.05.20

01:25, 03:30, 10:40, 01:55

04:30pm, 10:15am, 06:45pm, 11:20am

Annie has recorded the minutes past the hour first instead of the hour. The time should be 02 : 22

Jack could catch the train to Bramley or Leeds. He would have to wait 7 minutes to go to Bramley and 28 minutes to go to Leeds.