

MATHS

Hi Walker and Lichtenstein!

Every day, we'll be providing Maths activities to keep all of your Maths skills alive. Remember to also make time for TTRS and Mathletics – **these should be accessed daily.**



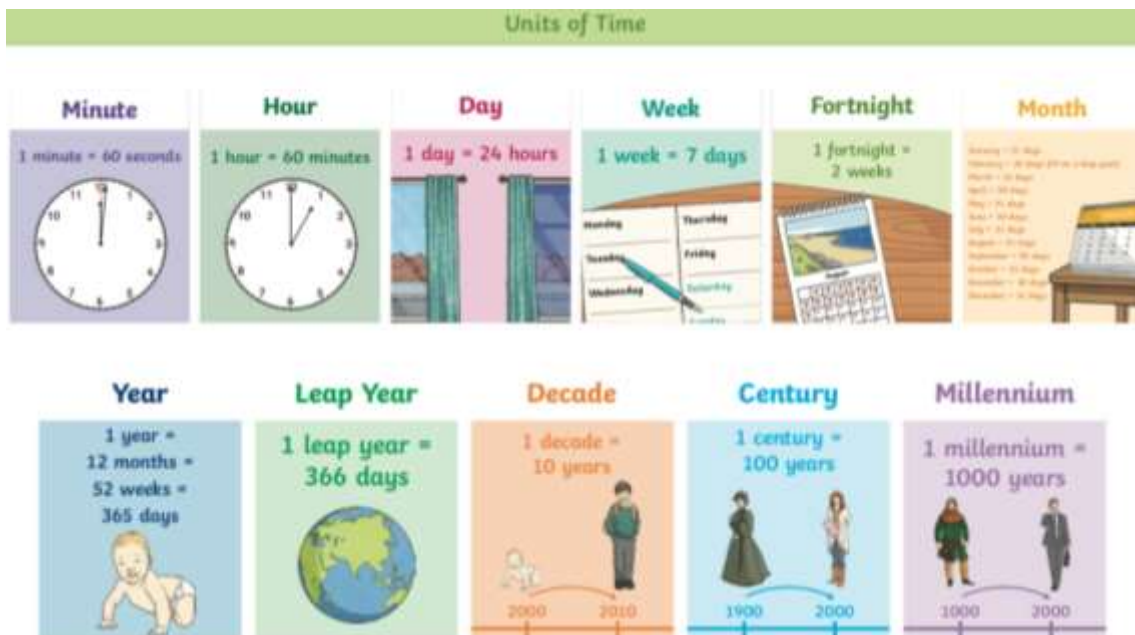
<https://play.ttrockstars.com/auth>



<https://login.mathletics.com/>

Maths Topic Overview: Time and Timetables

This week, we'll be focusing on **time and timetables.**



Ensuring you are **confident with telling the time and using vocabulary about time** will help you to complete the weekly tasks. The poster above will help you with this.

There are lots of resources below to help you consolidate your understanding (and even more at the bottom of this document).

Throughout the week, aim to actively involve time into your day.

E.g. saying things like: "It is dinner at 6.30 pm, it is 4.00 pm now - that means dinner is in an hour and a half."

This repetition will help you improve and excel into time telling genius'.

Happy learning!

Miss McGroarty & Ms Deudney

Lesson 1

Get your brain going with 1 game in the **GARAGE** on **RockStars!**

Today we're going to be reminding ourselves how to tell the time and convert time between analogue and digital, 12 and 24 hour times.

*I don't know about you, but I've not been using time very much at all recently...
So, I thought a quick recap would do us all some good!*

Here is a clock (with Roman Numerals).

The **Roman Numerals represent hours (1 – 12)** and the **small lines represent minutes (60)**.

There are **24 hours in one day**.

The **day** can be measured by **splitting it into two halves**:

- the **first 12 hours** of the day – from midnight to midday – are called **AM**;
- the **next twelve hours** are called **PM**.



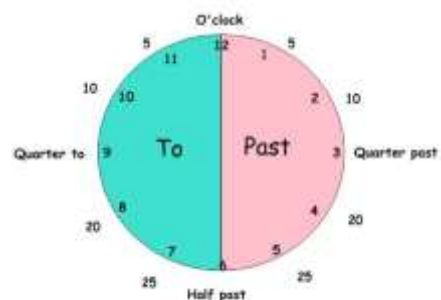
That's why the clock goes around twice a day, as it only shows the time up to 12.

The **small hand (green)** points at the **hours** and the **large hand (blue)** points at the **minutes**.



Before the minute hand gets to 6, we say, "...past..."
This is because we are minutes past an hour.

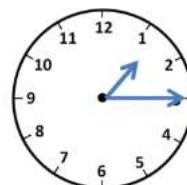
Once the **minute hand passes the 6, we say, "...to..."**
minutes to the hour. **This is because we are minutes to the next hour.**



The time on the clock shows **19 minutes past 9**.



Half Past 9



Quarter Past 10



Quarter to 10

Work through the **PowerPoint Yr5 Maths su2 wk3 presentation 1** to remind yourself how to convert from analogue to digital.

Here's a video to help you even more:

<https://www.bbc.co.uk/bitesize/topics/zhk82hv/articles/zcmdwxs>

Activity 1:

Write the digital time in the boxes.

1. What time is showing on these clock faces?



Activity 2:

2. Draw the hands on the clock face to show the times shown on the digital clocks.



04:15

09:30

11:45

12:15

Activity 3:

- Sophie arrives at Brentwood train station and looks at her watch. What time did she arrive at the station?



- Her train to London will arrive in 15 minutes. Show what time her train is due to arrive on Sophie's watch.



- The journey to London lasts 30 minutes. What time will Sophie arrive in London?

challenge?

Looking for a

Match the cards using this link:

<https://nrich.maths.org/pelmanisms/main.html?game=matchingtime&number=12&timer=hidden>

If you'd like to practise reading and writing the time, you'll find more questions at the end of this document.

Lesson 2

Improve your rock speed with 1 game in the **STUDIO** on **RockStars!**

Today, we're going to be looking at **bus timetables**, and figuring out how to read them.



Work through the **PowerPoint Yr5 Maths su2 wk2 presentation 2** to develop your understanding of how to read a bus timetable.

Remember to put the PowerPoint in presentation mode by clicking on this icon in the bottom right hand corner.




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Activity 1:

Complete the table, by converting the times into 24-hour clock times and vice versa.



Time	24-Hour Clock Time
half past 7 in the evening	
9:47 a.m.	
13 minutes to 10 in the evening	
midnight	
 evening	
midday	
quarter to eleven in the evening	
five a.m.	
	20:36
	23:00

Activity 2:

Look at the timetable below and answer the questions. The timetable is available bigger on page 10. **Read through Miss McGroarty's Top Tips on the next page before you begin.**

Greengate Lane » Hilltop Road						Hilltop Road » Greengate Lane					
	Bus 24	Bus 29	Bus 33	Bus 38	Bus 40		Bus 24	Bus 29	Bus 33	Bus 38	Bus 40
Greengate Lane	11:45		12:35	13:00	13:45	Hilltop Road	13:25		14:15	14:40	15:25
Pizza restaurant	12:25		13:15	13:40	14:25	Car park	13:47		14:37	15:02	15:47
Hardware shop	12:32		13:22	13:47	14:32	Cinema	13:52		14:42	15:07	15:52
Supermarket	12:40		13:30	13:55	14:40	Police station	14:06		14:56	15:21	16:06
Police station	12:44		13:34	13:59	14:44	Supermarket	14:10		15:00	15:25	16:10
Cinema	12:58		13:48	14:13	14:58	Hardware shop	14:18		15:08	15:33	16:18
Car park	13:03		13:53	14:18	15:03	Pizza restaurant	14:25		15:15	15:40	16:25
Hilltop Road	13:25		14:15	14:40	15:25	Greengate Lane	15:05		15:55	16:20	17:05

- The number 29 bus runs 25 minutes later than the number 24 bus. Write the missing times of the number 29 bus onto the timetable.
- How long does it take Ema to travel on the number 33 bus from the pizza restaurant to the cinema?
- How long does it take Ema to travel on the number 24 bus from Greengate Lane to Hilltop Road?
- Ema catches the number 33 bus from the car park at 14:37. The bus is delayed for 11 minutes by a traffic jam. What time does she get to the supermarket?
- Ema wants to get to the cinema by 13:30. What is the number and time of the latest bus she can catch from the pizza restaurant?
- What is the number and time of the latest bus that Ema should travel on to get from Greengate Lane to the cinema before 14:00?
- What is the number and time of the latest bus that Ema should travel on to get from the hardware shop to the car park for 14:00?
- Ema gets to the supermarket at 13:35 and catches the next bus to the cinema. What time does she arrive at the cinema?

Miss McGroarty's tips:

1. The times on the timetable are when the bus arrives and departs.
2. The buses go in opposite directions, one is going from Greengate lane to Hilltop Road, the other is going from Hilltop Road to Greengate Lane.
3. You read the timetable top to bottom; you cannot go bottom to top as the bus does not drive that way.



Activity 3:

Remember, there is a PowerPoint and a video above to help you.

Bus 2 Timetable										
Station	06:00	07:00	08:00	09:00	10:00	12:00		15:00	16:00	17:00
Theatre	06:43	07:43	08:43	09:43	10:43	12:43			16:43	17:43
Museum	07:20	08:20	09:20	10:20	11:20	13:20	15:20			18:20
Hospital	07:50	08:50	09:50	10:50	11:50	13:50	15:50	16:50		
Supermarket	08:37	09:37	10:37	11:37	12:37	14:37	16:37	17:37	18:37	

Now read these statements and decide if they are true or false, explaining your reasoning.

- a) A bus leaves the station on every hour.

- b) It takes exactly two hours and thirty-seven minutes to travel from the station to the supermarket.

- c) If you take the correct bus from the theatre to the hospital, you can arrive at the hospital at exactly 3pm.

- d) The journey time from the museum to the supermarket is shorter than the journey time from the theatre to the hospital.

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Looking for a challenge? Try this reasoning question:

A bus route has a total duration of 40 minutes.

Every 10 minutes, two buses set out, one from each end.

How many buses will one bus meet on its way from one end to the other end?



Lesson 3

Get your brain going with 1 game in the **GARAGE** on **RockStars!**

Today you'll be working with a variety of timetables, helping you to consolidate telling the times and knowing **how to read and organise** timetables

Activity 1:

Answer the questions about the holiday activity timetable.

Twinkl Holiday Camp		
Activity	Red Group	Blue Group
Crazy golf	09:00	09:10
Go-karting		09:40
Snack and rest	10:35	10:20
Mountain biking	11:00	
Beach barbecue	12:40	12:00
Mini tennis		12:45
Snack and rest	14:25	14:05
Trampolining	14:45	
Home time	15:25	15:10



- Use this information to fill in the gaps in the timetable:
 - Red Group will play crazy golf for 35 minutes.
 - Blue Group's morning snack and rest lasts for half an hour.
 - Red Group will be at the beach barbecue for 45 minutes.
 - Blue Group are timetabled to do trampolining for 40 minutes.
- Other than snack and rest, which two activities will Red Group do for less than one hour?

- For how many minutes are Red Group trampolining?

- For how many minutes in total will Blue Group do crazy golf and go-karting?

- For how many minutes longer will Blue Group do mini tennis than red group?

- Which group will have the shortest snack and rest time in the afternoon?

- Which activity are Red Group doing for 100 minutes?

* . * * .

Well done! Now let's try a TV Guide timetable for Activity 2:

TV Guide								
Channel 1	16:00 Tom and Henry	16:10 Whizz Bang	16:25 Funny Bones	16:45 Brainbusters		17:15 Weather Forecast	17:25 Tick Tock	17:40 Joking Around
Channel 2	16:00 Exploring the Wild	? Crazy Race		16:35 Today's News	16:50 Danger Dog	17:00 Eyes on the Past	17:20 Ha, Ha!	17:35 Sports Mix-Up
Channel 3	16:00 Around the World	16:20 Hungry Harry	16:30 Download Now	16:45 Weather Forecast	16:55 Practical Pranksters	17:15 Alan and the Chinchillas	17:30 Beat the Teacher	
Channel 4	16:00 Dolly the Duck	16:10 Amazing Impressions	16:30 Incredible Insects		16:50 Sports Round-Up	17:05 Wheel of Questions	17:25 News and Weather Forecast	17:40 Chuckles

- Which programme is on Channel 3 at 16:55?

- Which four programmes are showing on TV at 16:40?

- How many minutes long is Tick Tock on Channel 1?

- How many minutes long is Sports Round-Up on Channel 4?

- Which two programmes on Channel 3 are 20 minutes long?






- Which programme is shorter – Whizz Bang or Dolly the Duck?



★ ★ ★

And finally, Activity 3 is a cinema timetable:



	Forever Friends						
	09:20	11:27	13:34	15:41	17:48	19:55	
	Clowning Around						
	09:00	10:53	12:46	14:39	16:32	18:25	20:18
	Ghost House						
	09:30	11:17	13:04	14:51	16:38	18:25	20:12
	Super Sonic						
	09:10	11:23	13:36	15:49	18:02	20:15	
	Dance School						
	09:15	11:14	13:13	15:12	17:11	19:10	

- 1) After each film has finished, the cinema staff are given 15 minutes to clean the room before the next showing. Use this information to work out how long each film is. Give your answer in minutes.

Forever Friends: _____

Clowning Around: _____

Ghost House: _____

Super Sonic: _____

Dance School: _____

- 2) If Megan arrived at the cinema at 11:15 to watch a film and needed to leave at 14:00 to catch her bus home, which films would she be able to watch?

- 3) If Megan arrived at the cinema at 12:40 to watch a film and needed to leave at 15:35 to catch her bus home, which films would she be able to watch?

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Lesson 4

Get your brain going with 1 game in the **GARAGE** on **RockStars!**

Well done for the all you have achieved this week.



Now: Have a go at the activities we have set for you on Mathletics.

Enjoy!

Lesson 2, Activity 2: Enlarged Time Table.

Greengate Lane » Hilltop Road						Hilltop Road » Greengate Lane					
	Bus 24	Bus 29	Bus 33	Bus 38	Bus 40	Bus 24	Bus 29	Bus 33	Bus 38	Bus 40	
Greengate Lane	11:45		12:35	13:00	13:45	Hilltop Road		13:25	14:15	14:40	
Pizza restaurant	12:25		13:15	13:40	14:25	Car park		13:47	14:37	15:02	
Hardware shop	12:32		13:22	13:47	14:32	Cinema		13:52	14:42	15:07	
Supermarket	12:40		13:30	13:55	14:40	Police station		14:06	14:56	15:21	
Police station	12:44		13:34	13:59	14:44	Supermarket		14:10	15:00	15:25	
Cinema	12:58		13:48	14:13	14:58	Hardware shop		14:18	15:08	15:33	
Car park	13:03		13:53	14:18	15:03	Pizza restaurant		14:25	15:15	15:40	
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- Ema gets to the supermarket at 13:35 and catches the next bus to the cinema. What time does she arrive at the cinema?

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If you'd like to practise reading and writing the time a bit more, have a go at these!

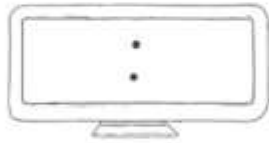


E.g. 10 minutes past 2.

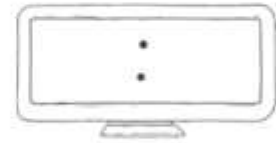


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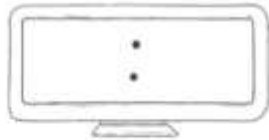
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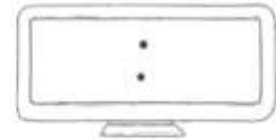
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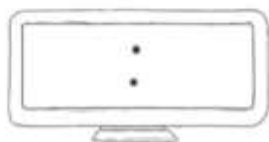
c)



d)



e)



f)

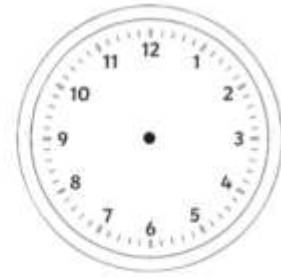


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a)



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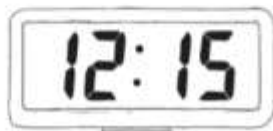
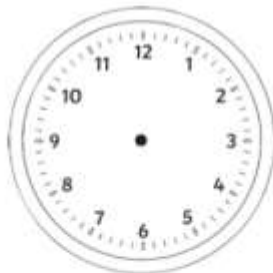
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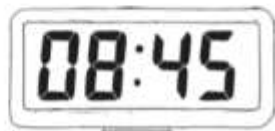
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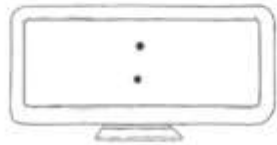


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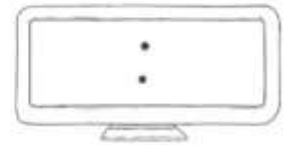


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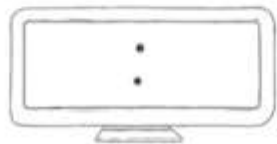
a)



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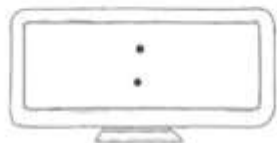
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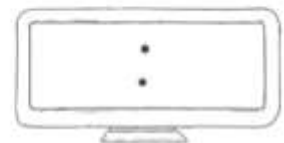
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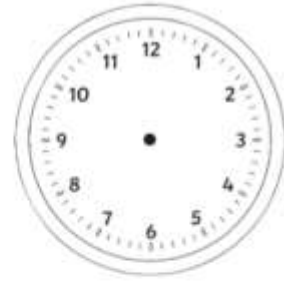


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a)



b)



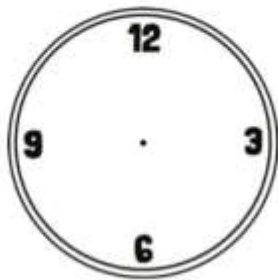
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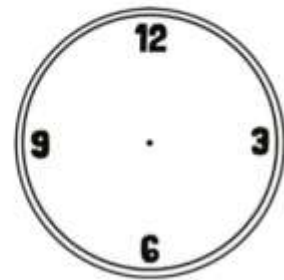
d)










e)



f)



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Time in Words	24 Hour Clock	12 Hour Clock	Analogue
seven o'clock in the evening	19:00	7:00p.m.	
		11:00a.m.	
	14:15		
		8:20p.m	
midday			
		6:40p.m.	
midnight			
seven minutes to eight at night			