## Week beginning 1st February P6/5 Maths Planner



## P6/5 Maths What to expect!

- At the beginning of each week we will upload 3 PowerPoints into the January Home Learning folder on teams. Literacy, Numeracy and General.
- Teachers will be on hand to support throughout the school day.
- Teachers will host daily live meets at 9.35am and 1pm where they will talk through your task. These will be for help, support, check ins and fun will take place! Feel free to join whenever you can.
- You can work through the activities at your own pace, choosing activities you would like to complete :)


## \#P6/5areoutofthisworld

## Suggested Timetable

## P6/5 Home Learning Suggested Timetable

|  | 9:00-9:30 | 9:35-12:00 |  | $\begin{aligned} & \text { Lunch } \\ & 12.00 \\ & 1: 00 \end{aligned}$ | 1.00-2.00 | 2.00-3.00 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Monday | Move your body! Joe Wicks or Just dance |  |  |  | Topic |  |
| Tuesday | Mindfulness <br> (Off screen activity) |  |  |  | Topic |  |
| Wednesday | Move your body! Joe Wicks or Just dance |  |  |  | Topic |  |
| Thursday | Mindfulness (Off screen activity) |  |  |  | RME/French |  |
| Friday | Move your body! Joe Wicks or Just dance |  |  |  | Topic |  |

Your Teacher will be Live on Teams every day at $9: 35 \mathrm{am}$ and 1pm


LI: to tell the time in a variety of different formats
(analogue, digital, 12 hour/24 hour)

## Starter - Daily 5

### 01.02 .21

| Pyramids | Cubes | Cuboids |
| :---: | :---: | :---: |
| 1. $3372 \div 6$ | 1. $18 \div 3$ | 1. $64 \div 4$ |
| 2. $2 / 7$ of 63 | 2. $\frac{1}{4}$ of 24 | 2.1/5 of 35 |
| 3. $238 \times 21$ | 3. $3 \times 4$ | 3. $7 \times 6$ |
| 4. $(13 \times 9)+231$ | 4. $6 \times 3$ | 4. $4 \times 9$ |
| 5. 1403 | 5. 13 | 5. 245 |
| - 247 | -7 | -57 |

## Spheres

1. $182 \div 7$
2. $2 / 6$ of 36
3. $224 \times 6$
4. $327 \times 9$
5. 513
$-147$



## Cuboid



## Spheres <br> 01.02.21



## Pyramids

### 01.02.21



Example :
Can you see that morning times in 24 hour format stay almost the same ?

| 6.00 am | becomes | 0600 hrs |
| :--- | :--- | :--- |
| 8.45 am | becomes | 0845 hrs |
| 11.20 am | becomes | 1120 hrs |

But for afternoon and evening times, you always add on 12 hours

| 3.00 pm | becomes | 1500 hrs | (3 hours past $12.000^{\circ}$ clock) |
| :--- | :--- | :--- | :--- |
| 6.15 pm | becomes | 1815 hrs | $(6.15+12.00)$ |
| 10.40 pm | becomes | 2240 hrs | $(10.40+12.00)$ |

## Exercise 2

1. Change the following 12 hour clock times to 24 hour clock times (eg $7.10 \mathrm{am} \rightarrow 0710$ ) :

| a | 8.40 am | b 3.55 am | c | 5.00 am |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| d | 3.30 pm | e 2.15 pm | f 8.00 pm |  |  |
| g | 5.45 am | h 10.20 pm | i | 4.35 am |  |
| j | 9.55 am | k | noon | । | 12.20 am |
| m | 12.20 pm | n | 9.30 pm | o | 7.55 am |
| p | 11.30 pm | q | 11.32 pm | r | 7.36 am |
| s | 10.58 pm | t 11.19 am | u | 8.48 pm |  |
| v 2.01 am | w 2.01 pm | x | midnight |  |  |




### 25.01.21

## Online Game Finishers

https://www.topmarks.co.uk/Flash.aspx?f=matchingpairstimev3
https://www.sheppardsoftware.com/math/time/clock-splatgamel
https://mathsframe.co.uk/en/resources/resource/261
https://mathsframe.co.uk/en/resources/resource/118/adding_tim e_word_problems\#
http://www.scootle.edu.au/ec/viewing/L9643/index.html

### 03.02.21

## LI: to calculate the length of time it takes between two intervals

## Starter Morning Challenge

A security door has a code using the digits $2,0,1$ and 7 .

How many different combinations of these digits could there be to open the door?

How can you be sure that you have found all the combinations?


# <div class="inline-tabular"><table id="tabular" data-type="subtable">
<tbody>
<tr style="border-top: none !important; border-bottom: none !important;">
<td style="text-align: center; border-left: none !important; border-right: none !important; border-bottom: none !important; border-top: none !important; width: auto; vertical-align: middle; ">10</td>
<td style="text-align: center; border-bottom: none !important; border-top: none !important; width: auto; vertical-align: middle; ">$a^{2}$</td>
</tr>
<tr style="border-top: none !important; border-bottom: none !important;">
<td style="text-align: center; border-left: none !important; border-right: none !important; border-bottom: none !important; border-top: none !important; width: auto; vertical-align: middle; ">9</td>
<td style="text-align: center; border-bottom: none !important; border-top: none !important; width: auto; vertical-align: middle; ">$a^{3}$</td>
</tr>
<tr style="border-top: none !important; border-bottom: none !important;">
<td style="text-align: center; border-left: none !important; border-right: none !important; border-bottom-style: solid !important; border-bottom-width: 1px !important; border-top: none !important; width: auto; vertical-align: middle; ">$8_{7}$</td>
<td style="text-align: center; border-bottom-style: solid !important; border-bottom-width: 1px !important; border-top: none !important; width: auto; vertical-align: middle; ">4</td>
</tr>
</tbody>
</table>
<table-markdown style="display: none">| 10 | $a^{2}$ |
| :---: | :---: | :---: |
| 9 | $a^{3}$ |
| $8_{7}$ | 4 |</table-markdown></div> Simple Time Intervals 

Working out a time interval means: Being given two different times and calculating the length of time in between the two.

## Simple Time Intervals

03.02.21

## Let's do these together...

1. I start my homework at 7.15pm and finish it at 7.30pm. How long does it take me to do my homework?
2. I go swimming at 9.45am. I swim for half an hour. What time is it when I finish swimming?
3. I leave the house at 3.05pm. It takes me 42 minutes to walk to my friend's house.
What time do I arrive at her house?

## $10^{11^{12}} 12$

## Pyramids

Starter
Morning Challenge
Main Task
Teejay 2a pg. 31 Short Time Intervals (full exercise)

Finisher
Time Question on the next slide - verbally record yourself or type out why.

## Cubes

## Starter

Morning Challenge
Main Task
Time Intervals
Worksheet -
drawing the hands on the clock

## Finisher

Time Question on the next slide - verbally record yourself or type out why.

## Cuboids

## Starter

Morning Challenge
Main Task
Teejay 1b
Simple Time Intervals pg. 40

Challenge: Timetables pg. 41 Q1 \& Q2

Finisher
Time Question on the next slide - verbally record yourself or type out why.

## Spheres

## Starter

Morning Challenge
Main Task
Teejay 1b: pg 42
Q3-5

Challenge: Teejay 2a pg. 31 Q1-Q3

## Finisher

Time Question on the next slide - verbally record yourself or type out why.

## Cubes

### 03.02.21

Name: $\qquad$ Date: $\qquad$

## Time Interval

Jake leaves home at 4 o'clock. It takes an hour for Jake to get to his Gran's house. What time will he get there?


Mum puts a cake in the oven at $10^{\prime}$ clock. It takes an hour to bake. What time will it be ready?


I start to watch TV at 7 o'clock. The progromme lasts one hour. What time will it finish?


I go for a walk at half past 3. It takes me one hour. What time do I come back?


A Maths lesson starts at half past 9. It lasts for ore hour. What time does it finish?


A family go out for a meal at $\underline{6}$ o'clock. They are out for $\underline{2}$ hours. What time do they get home?


## Cuboid

## Exercise 3 <br> Simple Time Intervals <br> Extension

1. a How many hours is it from $20^{\prime}$ clock to 5 o'clock?
b How many hours is it from $30^{\prime}$ clock to $80^{\prime}$ clock?
c How many hours is it from 12 o $^{\circ}$ clock to 3 o'clock?
d How many hours is it from 5 o'clock to 11 o'clock?
2. a How many hours is it from half past 3 to half past 5?
b How many hours is it from half past 6 to half past 11 ?
c How many hours is it from quarter past 2 to quarter past 7 ?
d How many hours is it from 6:15 am to 11:15 am?
e How many hours is it from 5:20 pm to 10:20 pm?
f How many hours is it from 10:55 am to 3:55 pm?

3. The bus station clock is shown.
a What time does the clock read ?

b My bus leaves at quarter to two
How many minutes until my bus leaves?
c Jack's bus leaves in 45 minutes time.
At what time does his bus leave ?
d The bus to town leaves in 1 hours and 30 minutes time. At what time does the bus to town leave?

## Spheres 03.02 .21

3. Eric and his dad arrived at the show at 6.50 pm . Were they late or early?
4. | EASY-AIR |  |
| :--- | ---: |
| Flight Departures |  |
| Malaga | $10: 55 \mathrm{am}$ |
| Palma | $11: 40 \mathrm{am}$ |
| Barcelona | $12: 35 \mathrm{pm}$ |
| Ibiza | $1: 05 \mathrm{pm}$ |
| Tenerife | $2: 50 \mathrm{pm}$ |
| Nice | $3: 20 \mathrm{pm}$ |
5. Stacey was looking at Channel 6's T.V. programmes for Tuesday.
a Royal Ascot is on at 25 past 3 in the afternoon. Write out the times of the following programmes fully in a similar way :-
(i) Count-Up
(ii) Away And Home
(iii) Sports Roundup
(iv) News In Brief
b Stacey was watching Channel 6 at 5 past 4
Which programme must she have been watching?
c Which programmes are showing on Channel 6 at :-
(i) $5: 35 \mathrm{pm}$
(ii) $7: 50 \mathrm{pm}$
(iii) $\frac{1}{4}$ past 8 at night?

Amy's mum is checking her flight time Her plane to Malaga leaves at 5 to 11 in the morning. Write the other departure times in a similar way.



3. The two clocks show when a gig started and finished one Saturday evening.


For how long did the gig last?
4. Ian Fraser set off on the Greenock Marathon at 10.35 am. He arrived at the finish line at 2.14 pm .
How long had Ian taken to run the marathon?


## Pyramids

### 01.02.21



## Exercise 3

. How long is it from :- (show which method you used to "count on" in obtaining your answer)
a 3.05 pm to 6.05 pm
b 10.00 am to 12.30 am
c midday to 5.30 pm d 8.30 pm to 11.35 pm
e. 7.55 am to 9.25 am f 4.40 am to 10.15 am
g 0820 to 1025 h 1855 to 2020
i 1950 to 2105 j 2240 to 0300 (next day).
2. Calculate the finishing times of the following films :-

| Film A | Film B | Film C | Film D | Film E |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Start Time | 3.30 pm | 5.45 pm | 8.35 pm | 11.35 am | 11.30 pm |
| Show lasted | 2 hr 30 mins | 2 hr 40 mins | 2 hr 45 mins | 55 mins | 3 hr 45 mins |

3. The two clocks show when a gig started and finished one Saturday evening.


For how long did the gig last ?
4. Ian Fraser set off on the Greenock Marathon at 10.35 am . He arrived at the finish line at 2.14 pm .

How long had Ian taken to run the marathon?

5. Shown is part of the bus timetable from Malton to Highrose.

a How long does the early bus take to travel from :(i) Malton to Lugton (ii) Blythe to Fenton
(iii) Malton to Highrose same speed as the early bus,
b Assuming that the lare bus to arrive at :(i) would be expec Notice how long
the early bus takes
(ii) Fenton?


A cargo ship leaves Dunbar Harbour at 4.48 am and does not reach its destination till quarter to 6 at night. For how long had the ship been at sea?

A plane leaves Edinburgh Airport at 2150 on Thursday. It touches down in Mexico at 0735 (British time) on Friday
a How long did the flight take?


On the flight back the plane took the same flight time and left at 0840 (British Time).
b At what time did the plane arrive at Edinburgh ?
8. A satellite circles the earth. At 0335 it is directly above Cumbernauld It is then found to be above Cumbernauld again at 0710 .
Calculate the time taken for 1 complete orbit of the earth
When would you next expect the satellite to be over Cumbernauld ?

9.


Joe challenged Penny to see who could paint one side of the fence surrounding the village green quicker.
Joe started his side at 1045 and completed his task at 1305.
Penny began to paint the other side at 1350 and finished at 1505 .
Who was quicker and by how many minutes ? 1505 .
CfE Book 2a - Chapter 4

Why do you think time goes faster when you are having
fun, but seems to slow down
when you are doing something that is not fun?

## $\underline{05.02 .21}$

LI: to develop

- basic modelling skills
- your skills in testing and analysing result



## Introduction

In this task you will need to build, test and improve different paper airplane designs.

Model testing tells Engineers how a design responds in different circumstances, in this case you will see how your model reacts to different air conditions and aircraft shapes.

Using small models guides engineers to discard prototypes that do not work, saving both time and money.

## Success Criteria (steps to success):

I can:

- create at a paper models of 3 different aeroplanes to use in experiments
- test and record the flight distance of each design in the tables provided
- take pictures of your models, attach them to your PowerPoint and submit via Microsoft Teams

You will need:
A4 Paper or Card
A straight edge (optional to help with neat folds)
A phone or camera to take pictures and upload

## Steps...

## Create

You can design your own aeroplanes or follow the guides found on this website:
https://www.foldnfly.com/\#/1-1-1-1-1-1-1-1-2

Fly each design three times, recording the distance and the
Fly length of time in the air, for each attempt.
Upload a picture of each of your designs.

Evaluate Complete the evaluation questions.

## CHALLENGE:

## Plane 2



## Attempt 2

Attempt 3

Average

## Evaluations

## Evaluation 1 <br> Evaluation 2

What design travelled the furthest, and why do you think this happened?

What design spent the
longest time in the air, and why do you think this happened?

