

A close-up photograph of several green fern fronds. The fronds are long and feathery, with many small, pointed leaflets. They are set against a dark, blurred background, which makes the green color of the ferns stand out. The lighting is soft, highlighting the texture of the leaflets.

RICH MATHEMATICAL TASK BOOKLET

MEASUREMENT TIME

YEAR 5-6 EVEN YEARS

Copy Masters

*Copy Masters Year 5-6 Even Years***Task 1**

Put each time on a timeline from AM - PM.

Convert each time to the 24hour time.



Task 1 (independent)

How many minutes are there between each hour on an analogue clock? Make a number line of an analogue clock which shows from 8 A.M. to 9 A.M. Make sure you put all the markings in between. Record what the markings mean and then record the number they represent. What do you notice?

Use your timeline to show the activities you do between 8 and 9 o'clock on a school morning.

Task 2

With your group record 6 things you all do over a day.

Record what time you start and finish each of these things in hours and minutes on a 24-hour clock. Record the duration of each of these things.

Now make a timeline which shows the start and finish and duration of each of these activities.

Match the start and finish time with what they would look like on an analogue clock.

Task 2 (independent)

You and your friends are discussing your birth dates. You are born on 23 March. Jo is born on 28 March. Celia is born on 14 April. Julia is born on 7 May. Ramona is born on 17 April.

Create a timeline. Record who is youngest by how many days and months. Record who is the oldest by days and months.

Task 3

After school Jessica watched three television shows.

The first started at 15:12 and went for three quarters of an hour. The next went from 4:03 and finished at 16:40 and the last one started at 5:07 and ran for seven minutes short of an hour.

How much television did she watch?

What time did she finish watching television?

Task 3 (independent)

What is the time difference?

- You get up at 7.16 A.M. and you go to bed at 9.05 P.M?
- You start playing tag a 12:47 and you stop at 13: 25?
- You have dinner at 6.39 P.M., and you do the dishes at 19:21?
- You go to bed at a quarter to 9 and wake up at 7:01A.M?

Task 4

Calculate the equivalent durations and complete the table

Hours	Minutes	Seconds
4		
	75	
		600
24		
	28	

Task 4 (independent)

Complete the table:

Hours	Minutes	Seconds
2		
	45	
		12,000
5		
	5	

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Task 5

Here is a bus timetable.

You live in New Brighton and have an appointment at Burwood Hospital at 9A.M – 10A.M, decide to go to the Palms for lunch and then to Qe2 for a swim at 1:30P.M, then home.

Plan out your day.

Remember to think about when you would need to leave home, what time to catch each bus.

Represent your day on a timeline

From New Brighton to The Palms

Monday – Friday	AM					PM							
New Brighton (Oram Ave)	6.40	7.40	8.45	9.45	10.45	11.45	12.45	1.45	2.45	3.45	4.40	5.40	
Taiora QE11	6.52	7.52	8.57	9.57	10.57	11.57	12.57	1.57	2.57	3.57	4.52	5.52	
Burwood Hospital	6:57	7:57	9:02	10:02	11:02	12:02	1:02	2:02	3:02	4:02	4:57	5:57	
Prestons (Te Korari St)	7.05	8.06	9.09	10.09	11.09	12.09	1.09	2.09	3.10	4.10	5.05	6.04	
The Palms	7.25	8.28	9.27	10.27	11.27	12.27	1.27	2.27	3.30	4.30	5.25	6.22	

From The Palms to New Brighton

Monday – Friday	AM					PM							
The Palms (Marshland Rd)*	7.50	8.45	9.45	10.45	11.45	12.45	1.45	2.45	3.45	4.45	5.50	6.50	
Prestons (Te Korari St)	8.04	8.58	9.58	10.58	11.58	12.58	1.58	3.00	4.00	5.00	6.05	7.03	
Burwood Hospital	8.10	9.04	10.04	11.04	12.04	1.04	2.04	3.06	4.06	5.06	6.11	7.09	
Taiora QE11	8.29	9.23	10.23	11.23	12.23	1.23	2.23	3.25	4.25	5.25	6.30	7.25	
New Brighton	8.38	9.32	10.32	11.32	12.32	1.32	2.32	3.35	4.35	5.35	6.40	7.35	

Task 5 (independent)

Using your local bus timetable, plan out a days adventure. You must have three stops along the way. You will leave home at 9A.M and return around 3:30P.M.

Represent your thinking on a timeline, remember to record the times you get on and off the bus, how long you will spend doing an activity.

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Task 6

This is a recent timetable for the ferry crossings between Wellington and Picton.

Date	Departs	Scheduled Departure	Departure	Arrival
Fri Oct 09	Wellington Kaitaki	8:30pm	Est: 8:30pm Actual: 8:05pm	Est: 12:00am Actual: 11:50pm
Fri Oct 09	Picton Kaiarahi	9:30pm	Est: 9:30pm Actual: 8:59pm	Est: 1:00am Actual: 12:41am
Sat Oct 10	Picton Kaitaki	2:30am	Est: 2:30am Actual: 2:05am	Est: 6:00am Actual: 5:49am
Sat Oct 10	Wellington Kaiarahi	3:30am	Est: 3:30am Actual: 3:27am	Est: 6:57am Actual: 6:44am
Sat Oct 10	Wellington Kaitaki	8:30am	Est: 8:30am Actual: 8:18am	Est: 11:48am Actual: 11:55am
Sat Oct 10	Picton Kaiarahi	9:30am	Est: 9:30am Actual: 9:04am	Est: 12:34pm Actual: 12:41pm

Frankie believes the Ferry Departing Wellington on the 10th October and 8:30A.M was the quickest crossing. Do you agree?

Explain and justify your reasoning.