

HAWKER COLLEGE



Goals



This week and next week we are going to:

- locate positions on Earth's surface using appropriate technology
- solve problems involving time zones in Australia and in neighbouring nations, making any necessary allowances for daylight saving
- solve problems associated with time zones; for example, internet and phone usage; solve problems relating to travelling east and west, incorporating time zone changes; solve problems involving Greenwich Mean Time and the International Date Line

Theoretical Components

Resources:

PDF file: Week 9/10 Travel

These articles provide excellent advice on ways to help you obtain the best deal for air fares and travel:

- <u>https://www.nomadicmatt.com/travel-</u> tips/how-to-find-a-cheap-flight/
- https://www.tripsavvy.com/air-travelplanning-4138681
- <u>https://www.choice.com.au/travel/money/travel-insurance/review-and-compare/travel-insurance</u>
- <u>https://understandinsurance.com.au/types-of-insurance/travel-insurance</u>

Sites such as <u>https://www.wotif.com/</u> can be very useful for finding good deals for accommodations.

Knowledge Checklist

• Travel around the world

Order

- 1. Read through the notes and examples
- 2. Work through the exercises
- 3. Complete the Portfolio Task
- 4. Complete the reflection at the end of the booklet
- 5. Come and see your teacher and make sure you are up to date.

Practical Components

Work through the exercises and show the completed tasks to your teacher.

Be sure to ask for help as you need for the successful completion of all tasks.

Remember to regularly check Google Classroom for messages.

Portfolio Task

Complete the task at the end of the booklet and submit your work for checking. ③

Other

ESSENTIAL MATHEMATICS 4

WEEK 9/10 NOTES AND EXERCISES

Task:

- You deserve a holiday, and so does your friend.
- You have decided to travel overseas during the upcoming school holidays.
- You will holiday for 10-14 days in a country/countries of your choice.
- You will need to organise:
 - o Flights
 - Accommodation
 - Travel insurance
 - Sightseeing/activities
 - Currency exchange
 - Overseas travel requirements

Holiday details

- 1. What country are you visiting?
- 2. Select an event to visit during your stay. This could be a sporting event, a music concert, art exhibition, or other activity of your choice.
- 3. Use the internet to find the position coordinates (latitude and longitude) of the capital city in your chosen holiday country.
- 4. Calculate the difference in longitude between Canberra and the capital city chosen, then calculate the time difference using 15° = 1 hour.
- 5. Use the internet to determine the time difference. Does your result from question 4 match? Why/why not?
- 6. If it is 9am in Canberra, what time is it in your holiday destination?

FLYING OVERSEAS

Most people travel overseas by plane because sea travel takes a long time. However, this is changing as more people discover the pleasures of a sea cruise.

How much will it cost?

Different airlines charge different prices. Prices depend on many things, including the convenience of flight schedules, the quality and reliability of service, competition from other airlines and the time needed to complete the flight. Individual airlines charge more for a flight in the peak season than for the same flight in the off season.

On the same flight, passengers choosing to fly Economy Class pay a cheaper fare than those who choose to travel Business Class or First Class.

You may be charged extra depending on if you want to choose specific seats or for baggage.

EXERCISE 1

1. Use the <u>internet</u> to find return flights from Canberra to your holiday destination. Complete the tables below showing the date of travel, the destination, airline, flight number, cost of the fare, time of arrival and departure. Try to find the cheapest flights.

Date	Airline	Flight number	Departing	Time of departure	Arrival	Time of arrival	Cost per ticket
			Canberra				

Date	Airline	Flight number	Departing	Time of departure	Arrival	Time of arrival	Cost per ticket
					Canberra		

2. Does your flight fly direct from Canberra or include a layover? Provide details.

3. How long between departure in Canberra to arrival at your destination? How long on the plane? How long layovers?

4. What is included in the flights? eg. luggage allowances, food, etc.

5. How early do you need to get to the Airport? Why do you need to arrive early for international flights?

ACCOMMODATION EXPENSES

Accommodation can be a major holiday expense, and the right accommodation can be a vital part of enjoying your holiday. Most hotels have websites that allow you to look at the accommodation and facilities before you book.

EXERCISE 2

Use <u>booking.com</u> or any other accommodation website to find a suitable accommodation for part of your stay (you do not need to detail accommodation for your whole holiday).

Things to consider:

- Are you going to share a room with your friend?
- What inclusions are important to you?
- 1. Complete the table below:

Date/s	City/Town	Accommodation name	Facilities available	Rating (stars)	Cost per night per room

- 2. How much will it cost for 3 nights?
- 3. What is included in the cost? eg. breakfast.

TRAVEL INSURANCE

If you get sick, have an accident, or face another type of emergency, you can have very large expenses. Everyone who travels is advised to have travel insurance. Medicare and most health funds will not cover you automatically for any medical expenses you have when you are overseas.

Travel insurance covers the cost of medical treatment, lost baggage, emergency accommodations and other misfortunes that may happen on your trip.

EXERCISE 3

Use the internet to find travel insurance for your holiday.

1. Who is the insurance provider?

2. How much does it cost?

3. What does it cover?

4. What doesn't it cover?

CURRENCY EXCHANGE

Even though you may be planning to use a credit or prepaid card when you are overseas, you will need access to local currency to pay bills such as bus and taxi fares and to buy small items of food. If you have an ATM card that has a blue 'cirrus' icon on the back, you can use the card in overseas teller machines to obtain local currency.

When you obtain money in this way, the receipt, including the current balance in the account, will be in the currency of the country where you withdrew the money. Even though you obtain cash electronically, you still need to know how much you are paying, in Australian dollars, for overseas purchases.

Money conversions

The value of money changes all the time. The amount of money that can be exchanged for \$A1 (one Australian dollar) is the exchange rate. Each day, exchange rates are published in newspapers, on television and on the Internet.

The easiest way to determine currency conversions is to use an online converter. However, if you are planning to buy items in local markets overseas, you are unlikely to be able to use the Internet and will need another way to calculate currency exchange.

To convert Australian dollars into another currency, **multiply** by the \$A1 exchange rate.

To convert another currency into Australian dollars, **divide** by the \$A1 exchange rate.

EXERCISE 4

1. What is the exchange rate between Australia and your holiday destination?

- 2. Are there fees to convert currencies?
- 3. How much is 1000 AUD in the local currency?

WEEK 9/10 PORTFOLIO TASK

1. When travelling overseas you need a current passport. You may not have one yet. How do you obtain an Australian passport? This website has some information: <u>https://www.passports.gov.au/getting-passport-how-it-works/how-get-adult-passport</u>

2. What is a visa?

3. Do you need a Visa for your holiday? This website might be useful: https://www.projectvisa.com/

4. Visit the Government website below and determine the current advice for travelling to your chosen holiday destination. (<u>https://www.smartraveller.gov.au/destinations/</u>)

MARKING RUBRIC

CRITERIA	EXPECTATIONS	POSS	MULT	GIVEN	TOTAL
Practical	Student completes practical work, including exercises of the brief to an acceptable standard set by the teacher.	2	3		/6
Portfolio Task	Student completes the portfolio task of the week to an acceptable standard set by the teacher.	2	2		/4
Reasoning and Communications	Student responses are accurate and appropriate in presentation of mathematical ideas in different contexts, with clear and logical working out shown.	4	-		/4
Concepts and Techniques	Student submitted work selects and applies appropriate mathematical modelling and problem solving techniques to solve practical problems and demonstrates proficiency in the use of mathematical facts , techniques and formulae .	4	-		/4
	Submission Guidelines				
Timeliness	Student submits the exercises and portfolio tasks by the set deadline. See scoring guidelines for specific details.	2	-		/2
		FINAL		/20	

Student Reflection:

How did you go with this week's work?

What was interesting?

What did you find easy?

What do you need to work on?