A. Science – What is Solar Energy?

Provide a definition of ‘solar energy’. Where might you find examples of solar energy? Create a list of examples.

B. Maths

1. Maths Mate

Complete the tasks on the Maths Mate Term 3 – sheets 7 & 8. If there are questions you are unsure of, make certain that you highlight it for further discussion in class.

MATHLETICS CONTINUES IN TERM 3!
Log in and complete the tasks set to you by your teacher.

C. English

Complete the attached Grammar Unit 15.
1. [+ Whole Numbers to 10]
   
   9  
   21  
   15  
   10  
   14  
   22  
   17  
   23  
   6  
   18  
   + 3

2. [− Whole Numbers to 10]
   
   30  
   19  
   18  
   26  
   12  
   13  
   21  
   15  
   17  
   24  
   − 9

3. [× Whole Numbers to 10]
   
   9  
   8  
   7  
   4  
   6  
   1  
   10  
   2  
   3  
   5  
   × 4

4. [+ Whole Numbers to 10]
   
   2  
   3  
   7  
   6  
   8  
   1  
   9  
   10  
   4  
   5  
   ÷ 1

5. [Large Number +]
   
   6  2  
   4  5  
   + 2  4

6. [Large Number −]
   
   2  6  4  
   − 6  7

7. [Powers of 10 ×,÷]
   
   6000 ÷ 1000 =

8. [Large Number ×]
   
   7  2  
   × 3  1

9. [Large Number ÷]
   
   5  ) 2 8 5

10. [Decimals]
    
    1. 7 5  
    5. 4 5

11. [Fractions]
    Shade the diagrams below to compare \( \frac{1}{2} \) and \( \frac{3}{4} \). Which fraction is larger?

12. [Number / Place Value]
    Round off 4.07 to the nearest whole number.

13. [Number Patterns]
    2, 8, 32, 128,

14. [Order of Operations] *
    \((7 + 2) \times 3 =\)

15. [Word Numbers]
    Write the number 3000 in words.

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**ARCHIMEDES**

(287 - 212 B.C.)

Archimedes was born on the island of Sicily. Besides being one of history's greatest mathematicians, he was also an inventor. Engineers today, when designing bridges and skyscrapers, still use the laws he discovered. He also came up with a very good approximation of the value of \( \pi \).

\[ \pi \approx 3.141592 \ldots \]
16. **[Location]**
Name the two animal enclosures closest to the Tapirs.

17. **[Geometry]**
Which shape can this net be used to make?
A) triangular pyramid
B) triangular prism
C) square pyramid

18. **[Statistics / Probability]**
Which country’s tennis players won the second most men’s singles titles between 1990 and 2004?

19. **[Units of Measurement]**
Which is greater: 700 cm or 80000 mm?

20. **[Time]**
The Olympic record for the women's 1500 m was set by Paula Ivan (ROM) in Seoul, 1988. She completed the first 700 m in 1:49.60 (1 min, 49.60 s) and the next 800 m in 2:04.36. What is the record time for the race?

21. **[Measuring]**
How many small triangles are needed to cover the larger triangle?

22. **[Problem Solving 1]**
Fill in the missing digits in the sum below.

\[
\begin{array}{c}
\phantom{0}7 \phantom{2}2 \\
\underline{- 2} \phantom{8} \\
\phantom{0}5 \phantom{8}2 \\
\end{array}
\]

23. **[Problem Solving 2]**
I think of a number, divide it by 2 and then add 12. If the result is 20, what was the original number?

24. **[Problem Solving 3]**
Each bead has a value according to its colour. The values of the first 3 strings of beads are given. What is the value of the last string?

22 24 26
Safe Travelling

The Australian Department of Foreign Affairs advises travellers on ways to have a safe holiday overseas. The department recommends the following:

- Check with the Department of Foreign Affairs for safe travel destinations.
- Avoid thrombosis—exercise legs and feet during flights.
- Wear clothing that will not be offensive to local people or their religions and customs.
- Wear a hat and sunscreen.
- Wear comfortable walking shoes.
- Drink bottled water when tap water is not considered safe to drink.
- Avoid ice in drinks unless it is made from bottled water.
- Eat cooked vegetables rather than salads.
- Eat fruit that you can peel such as bananas and pineapples.

A dependent clause adds extra information to a main clause. Dependent clauses do not make sense on their own.

An adjective clause is a dependent clause that does the job of an adjective, by describing a noun.

*Eat the mango, which is ripe.*

An adverbial clause is a dependent clause that does the job of an adverb, by adding meaning to a verb. It tells how, when, where or why an action occurs.

*You should cross where there is a zebra crossing.*

1. Read Safe Travelling. Underline the dependent clause that begins with a relative pronoun. What information does this clause add?

2. Add an adjectival clause after the relative pronoun to finish each sentence.

Ask for advice from a person who _____________________________.

Wear a hat that _____________________________.

Wear sunscreen that _____________________________.

Wear walking shoes, which _____________________________.

Avoid drinks that _____________________________.

Eat fruit that _____________________________.

Travel with people who _____________________________.

Travel with a person whose _____________________________.

Tip! Remember the rule on page 33.
Relating verbs show relationships, such as being and having. You cannot see any action taking place.

is  belongs  represents  equals  was  had  are  have

3 Find a relating verb in the introduction to Safe Travelling.

4 Use a relating verb from the box to complete each sentence.

become  belongs  equal  are  had

We ____________ a great holiday.
Tadpoles ____________ frogs.
My dog and your dog ____________ trouble.
Bears ____________ mammals.
The seat ____________ here.

5 Write a sentence for each relating verb in the box.

is  has  becomes  represents  belongs

6 Find two connectives in Safe Travelling.

7 Add a clause to finish each sentence about safe travel.

You'll get sunburned because ____________
You'll get a tummy ache if ____________
You should wear comfortable walking shoes or ____________
You insult the local people when ____________

8 Write the action verbs used at the beginning of each recommendation in Safe Travelling.

Try it yourself!

Write a procedure text including recommendations on a topic such as safe bike riding, beach safety, road safety, or safety in the kitchen. Use dependent clauses and relating verbs.