



Makes Maths Fun

Level 7 POSITION

Bloomsmath is a comprehensive mathematics program which provides a fun way for every student to be learning to the best of their ability.

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Position

Level 7 is designed for students in their seventh year at school often called Year 6. Students will use a variety of mapping skills.

Knowledge: Students will use the given map of Tasmania to find various locations.



Students who demonstrate proficiency in this activity move on to Comprehension.



Students stop here as they require additional teacher support to master this activity.

Comprehension: Students will plan a route around Tasmania.



Students who demonstrate proficiency in this activity move on to Application.



Students stop here if time has run out or they require additional support with this activity.

Application: Students will use the map scale to calculate the shortest distance for their trip.



Students who demonstrate proficiency in this activity move on to Analysis.



Students stop here if time has run out or they require additional support with this activity.

Analysis: Students will add additional destinations to their trip.



Students who demonstrate proficiency in this activity move on to Synthesis.



Students stop here if time has run out or they require additional support with this activity.

Synthesis: Students will compare the 2 trips and answer questions about each.

Evaluation: Suggested questions provide a starting point for discussions related to Position.



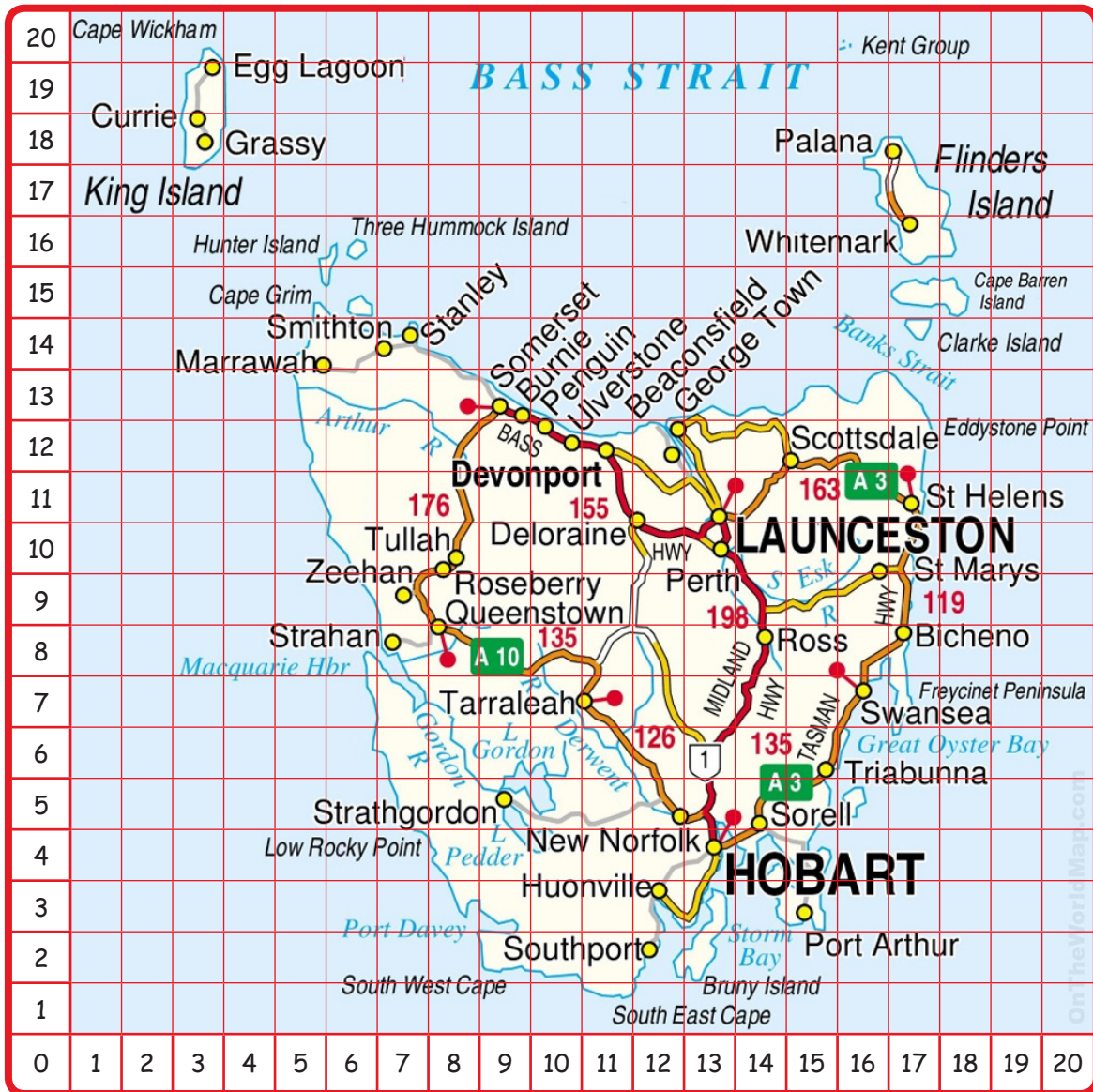
Students may complete more or fewer activities for each learning outcome depending on the time allocated and their strength in the area being covered.



All students should participate in the Evaluation discussion to encourage the use of mathematical language, logical reasoning and reflection on that which they have completed.

Name: _____

Knowledge



Position - Level 7 - Students will use a variety of mapping skills.

Knowledge

Comprehension

Application

Analysis

Synthesis

Evaluation

Give the co-ordinates on the grid for each of the following:

- | | |
|------------------------------|-----------------------------|
| 1. Bicheno _____ , _____ | 6. Queenstown _____ , _____ |
| 2. Burnie _____ , _____ | 7. St Helens _____ , _____ |
| 3. Marrawah _____ , _____ | 8. Stanley _____ , _____ |
| 4. New Norfolk _____ , _____ | 9. Southport _____ , _____ |
| 5. Port Arthur _____ , _____ | 10. Tarraleah _____ , _____ |



Let's Try This Again



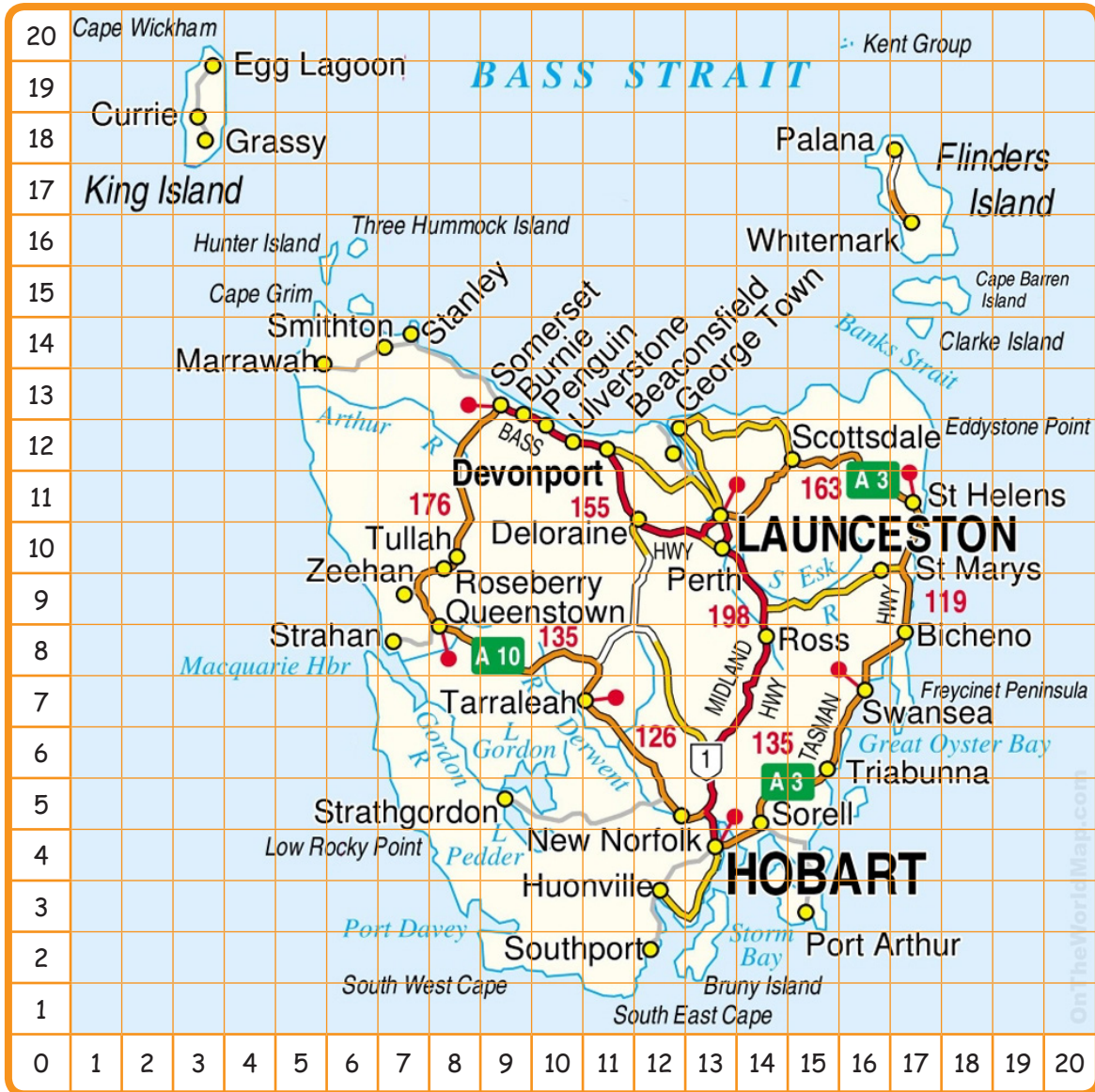
Progress To Comprehension



Name: _____

Comprehension

Using the map below and Google Driving Directions plan a 6 day driving holiday to include Devonport, Strahan, Port Arthur and Bicheno.



Position - Level 7 - Students will use a variety of mapping skills.

Knowledge

Comprehension

Application

Analysis

Synthesis

Evaluation

Day	Start	Finish
1		
2		
3		
4		
5		
6		



Let's Try This Again



Progress To Application



Name: _____

Application

Use the map scale to calculate the distance you will travel on each day of your trip.

Day	Start	Finish	Kilimetres Travelled
1			
2			
3			
4			
5			
6			

Total Distance Travelled:

Furthest travelled in 1 day:

Knowledge

Comprehension

Application

Analysis

Synthesis

Evaluation

Position - Level 7 - Students will use a variety of mapping skills.



Let's Try This Again



Progress To Analysis

Name: _____

Analysis

How does adding a visit to both Launceston and Hobart affect your holiday?

Recreate your holiday program to include Devonport, Strahan, Port Arthur, Bicheno, Launceston and Hobart. You still only have 6 days for your trip.

Day	Start	Finish
1		
2		
3		
4		
5		
6		

Position - Level 7 - Students will use a variety of mapping skills.

Knowledge
Comprehension
Application
Analysis
Synthesis
Evaluation



Let's Try This Again



Progress To Synthesis

Name: _____

Synthesis

Use the new holidays planner to calculate the distance travelled.

Day	Start	Finish	Kilimetres Travelled
1			
2			
3			
4			
5			
6			

Position - Level 7 - Students will use a variety of mapping skills.

Knowledge
Comprehension
Application
Analysis
Synthesis
Evaluation



Let's Try This Again



Progress To Evaluation

Evaluation

The following questions and activities are provide as a starting point for fun discussions related to Position. During these conversations students will have an opportunity to use appropriate mathematical language in its correct context, to engage in reflection on the Position activities they have completed and to use logical reasoning to tie their in-class mathematics to its everyday context.



Looking at the map of Tasmania discuss that there is an East Coast road, a west coast road and a road through the middle of the island.



Look at the shortest method for getting between various locations around Tasmania.



When hiring a car there is generally 100kms per day included in the fee. How would this affect the route students devised?



If there was an additional charge of 20¢ per km how much extra would it cost to plan the route of their Synthesis holiday?



Compare students kilometres to real distances using Google maps.



Assuming all roads are travelled at an average of 75km/h how long would the students be driving for on their 6 day holiday.

