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| Name:  Class: | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | Date:\_\_\_\_\_\_\_\_\_ |
|  | **Year 11 Essential Mathematics Unit 2**  **Practical Application 2020**  **Staircase to the Moon** | | |
| **Total Time:** | 1 week in class | Due date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
| **Weighting:** | 12.5% |
| **Equipment:** | To be provided by the student: Pen, pencil, ruler, scientific calculator, Interactive notebook | | |

During the current pandemic the West Australian Government is pushing for West Australians to travel around our state to help stimulate the economy. You and 3 friends have decided to help out our state by planning a holiday to Broome to see the Staircase to the Moon.

Your task is to create a travel itinerary and report for you and your friends to travel to Broome to see the Staircase to the Moon during the school holidays. This itinerary will include your modes of transport, places you stop along the way, any activities you may want to participate in and all the costs associated with your holiday.

You will be marked based on your use of the mathematical thinking process and the following syllabus points.

**Syllabus**

2.3.11 use rates to make comparisons

2.3.12 use rates to determine costs

2.4.1 use of units of time, conversions between units, fractional, digital and decimal representations

2.4.2 represent time using 12 hour and 24 hour clocks

2.4.3 calculate time intervals, for example, time between, time ahead, time behind

2.4.4 interpret timetables, such as bus, train and ferry timetables

2.4.5 use several timetables and electronic technologies to plan the most time-efficient routes

2.4.6 interpret complex timetables, such as tide charts, sunrise charts and moon phases

2.4.7 compare the time taken to travel a specific distance with various modes of transport

* + 1. use scales to calculate distances and lengths on plans, maps and charts
    2. plan routes for practical purposes, accounting for local conditions.