**WEEK 2 – Dream Trip Planning**

**Grade:** Intermediate (7-8)

**Unit:** Patterning and Algebra

**Learning Outcome**   
model real-life relationships involving constant rates where the initial condition starts at 0 (e.g., speed, heart rate, billing rate), through investigation using tables of values and graphs

**Activity  
1)** You will plan a post-quarantine vacation to a destination of your choice, this can be either one of the destinations listed below or a destination of your choice. **2)** Students will pick a city as a destination and day trip to take from that city   
**3)** Students will research the distance required to get from the closest airport to their home to their chosen city. They will then research the distance from their chosen city to their chosen day trip.   
**4)** Students will choose the most efficient mode of travel to get both to their city and to their day trip destination and research how fast they will travel with their chosen method (km/h)   
**5)** Students will then fill out the attached table of value with the relationship of travel from their home airport to their chosen city and the distance from their destination city to their day trip location.   
6) Once the table of values are filled out, students are to plot the points on separate chart paper or a printed cartesian plane

**Check for Understanding**   
I can connect my knowledge of speed and distance to a real world travel scenario  
I understand the relationship between time and speed at a constant rate   
I can plot points on a cartesian plane after filling out a table of values

**Materials**   
Recording sheet (attached below), pencil/pen, chart paper/grid paper/cartesian plane marked on blank paper, ruler/straight edge,

Travel Destination and Day Trips Options (or choose your own)



Paris, France

-Palace of Versailles

-Disneyland Paris

Marrakech, Morocco

-Atlas Mountains  
-Essaouira



Vancouver, BC

-Whistler ski resort

-Victoria



Kyoto, Japan

-Osaka Castle

-Nagoya



Rio de Janeiro, Brazil

-Tijuca Forest National Park

-Petropolis

Auckland, New Zealand

-Hobbiton

-Waitomo Caves



Where are you travelling to and how far is it from home? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Where do you want to go for a day trip and how far is it from your destination? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

In the tables below choose the most effective method of transportation and plot the time it takes to get to your destination/day trip and the distance that you travel. Then plot these points as a line graph on a separate piece of graph paper.

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| Travel Time: Table of Value to your Destination | |
| Method of travel (plane, car, train etc.) and speed of this method (km/h)  ­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
| **Time (Hours or ½ hours)**  **x-axis** | **Distance Travelled (kms)**  **y-axis** |
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| Travel Time: Table of Value For your Day Trip | |
| Method of travel (plane, car, train etc.) and speed of this method (km/h)  ­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
| **Time (Hours or ½ hours)**  **x-axis** | **Distance Travelled (kms)**  **y-axis** |
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