



## Year 7 Wai Whanau PEH/Maths Assessment 1

Context: He Waka Eke Noa: We are all in this Together

### Orienteering/ Tiawhe Ararau

The term 1 context for Wai Whanau's year 7's was He Waka Eke Noa: We are all in this Together. Our main goal was to help the year 7's find their place at Mission Heights Junior College, while exploring their own identity. In Maths we have been looking at scales/*āwhata*, measurements/*inenga roa* and unit conversions. In PEH we have been learning about movement concepts and motor skills in the context of orienteering/*tiawhe ararau*. For this task students will be using their orienteering skills and methods of approximating length to navigate/*whakatere* a course set up at Mission Heights.

#### Key Vocabulary

1. Scale- **āwhata**
2. Measurements of length- **inenga roa**
3. Orienteering- **tiawhe ararau**
4. Navigate- **whakatere**

#### Task Instructions:

In your groups you will be given task instructions to accompany your map and course. You will need to actively take part in the lessons, identifying, describing and demonstrating the skills below that have been covered during class time.

Ensure a recorder is noting down how many steps were taken between stations in order to accurately calculate your distances in your math lesson. If gate length was not used to approximate a certain length, explain your method and reasoning. Refer to our in class example in regards to showing all of your calculations.

## **Orienteering/Tiawhe ararau Skills:**

### **Understanding the Map**

Understand the mapped area and identify the features and their relative positions.  
Legend and features etc

### **Turning the Map**

Turn the map to match up the features on the ground (sometimes, mostly, always)

### **Navigation**

Navigate to a control station - decide on the direction and the best route to take

### **Following a bearing**

Follow a set of instructions to move from one location to another

### **Approximating distance**

Use a method of estimation/approximation for distance from one location to another  
I.e. map scale, gate cycle (stride length to measure distance)

## **Measurement/Inenga roa Skills**

- Approximating distance by using gate length
- Creating your own forms of approximating distance when gate length does not work
- Accurately measuring gate length prior to orienteering
- Using our class formula to calculate approximate length
- Assigning appropriate units of measurement to our calculated distances

### **PEH Curriculum:**

#### **Level 3**

#### ***Strand B - Movement Concepts and Motor Skills***

##### **1. Movement Skills**

Students will develop more complex movement sequences in a range of situations  
(Orienteering - outdoor pursuits)

##### **2. Positive Attitudes and Challenge**

When taking part in outdoor pursuits i.e. orienteering

Students will develop movement skills and demonstrate confidence in challenging situations.

### **Math Curriculum:**

#### **Level 4**

#### ***Strand - Ine/Measurement***

1. Estimate and then reliably measure length, capacity, and mass, using standard metric units
2. Use rulers, scales, square grids, and cubes to measure

## Rubric

Achievement Criteria	Working towards	At	Above	Beyond
Navigating a simple course	You have yet to navigate to a control station matching the features of a map to the features of the ground.	You have navigated to a control station matching the features of a map to the features of the ground.	You have navigated several control stations matching the features of a map to the features of the ground.	You have navigated all control stations matching the features of a map to the features of the ground.
Approximating distance	You have yet to use an approximation method to measure the distance between locations on an orienteering course	You have used an approximation method to measure the distance between locations on an orienteering course	You have used an approximation method to accurately measure the distance between most locations on an orienteering course	You have used an approximation method to accurately measure the distance between all locations on an orienteering course
Participation	You have yet to participate, or have demonstrated little effort, in PE lessons	You have usually participated, or demonstrated effort, in PE lessons.	You have mostly participated and shown effort in PE lessons.	You have always actively participated and shown effort and enthusiasm in PE lessons.
Converting Between Measurement Units	You have shown some understanding of <i>converting between measurement units</i>	You have shown an understanding of <i>converting between measurement units</i>	You have shown a strong understanding of <i>converting between measurement units</i>	You have shown a comprehensive understanding of <i>converting between measurement units</i>
Estimating Measurements	You have shown some understanding of estimation and measurement of length, area etc using appropriate units and our in class formula	You have shown an understanding of estimation and measurement of length, area etc using appropriate units and our in class formula	You have shown a strong understanding of estimation and measurement of length, area etc using appropriate units and our in class formula	You have shown a comprehensive understanding of estimation and measurement of length, area etc using appropriate units and our in class formula
Time management	You have not submitted your assessment on time	You have submitted your assessment by the due date	You have submitted your assessment by the due date	You have submitted your assessment by the due date
Overall	Working Towards	Achieved	Merit	Excellence