

## Observing Ant Behavior on Flat Island/Popoia

**Directions:**

1. Have students work in groups of three. Have each group of students take two index cards and put their names, classroom, and card # on the card.
2. Before placing the cards out, have the students put about a dime-sized amount of spam, peanut butter, and honey in the labeled spaces on the card. The cards should look like this:

<b>Ms. Kim and Ms. Nori</b>	SPAM	<input type="radio"/>
<b>C8</b>	HONEY	<input type="radio"/>
<b>Card #1</b>	PEANUT BUTTER	<input type="radio"/>

3. Have the students place the cards carefully into separate Zip-loc© bags.
4. Next, leaving the Zip-loc© bags open, have students place the bait cards about 10 feet apart from each other in a shady area.
5. Leave the Zip-loc© bags out for about 45 minutes.
6. During the 45 minutes, the students should pick a bait card to observe and answer the questions on the datasheet.
7. At the end of the 45 minutes, have students seal their Zip-loc© bags securely with the ants inside.
8. The ants should be brought back to the classroom and placed in the freezer until they are examined during the next class period.





## **Post-field trip Group work → classroom**

- 1) Separate the students into 4 groups
  - a. One group is in charge of summarizing the experiment
  - b. One group calculates the average number of ants and types of ants per bait card. They will also graph the total number of ants per bait card and number of species per bait card
  - c. One group will draw and describe the different types of ants observed in all the bait cards collected
- 2) Have them organize the different sections on a poster board
- 3) Display next to the Kanewai Field poster
- 4) Compare the data on the two posters and write out their conclusions.



<b>Bait card #</b>	<b>How many ants total?</b>	<b>How many different types of ants?</b>
<b>1</b>		
<b>2</b>		
<b>3</b>		
<b>4</b>		
<b>5</b>		
<b>6</b>		
<b>7</b>		
<b>8</b>		
<b>9</b>		
<b>10</b>		
<b>Total</b>		
<b>Average</b>		

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**What do the different ants look like? What bait did they like the best?**

**Ant #1** \_\_\_\_\_  
\_\_\_\_\_

**Ant #2** \_\_\_\_\_  
\_\_\_\_\_

**Ant #3** \_\_\_\_\_  
\_\_\_\_\_

**Ant #4** \_\_\_\_\_  
\_\_\_\_\_

**Ant #5** \_\_\_\_\_  
\_\_\_\_\_



