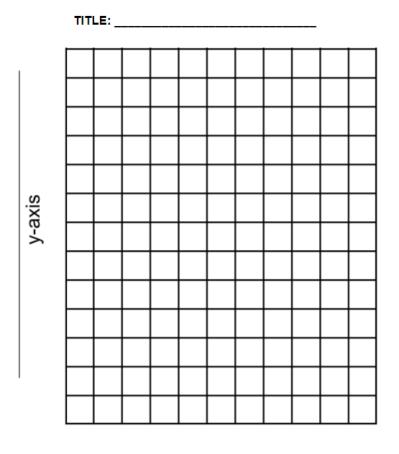


## **Energy Costs – Student Worksheet**

**Directions:** For each subgroup, calculate the average energy cost using the data obtained from the excel spreadsheet. Fill in the tables below and use that information to make bar graphs for each location.

## Location 1: California

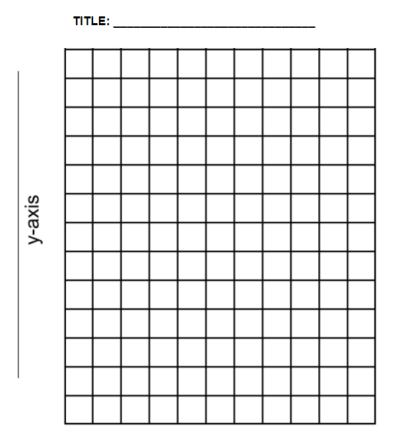
Subgroup		Average Energy Cost (calories)
Adult Males	Color:	
Adult Females	Color:	
Juvenile Males	Color:	
Juvenile Females	Color:	



x-axis

## Location 2: South Africa

Subgroup		Average Energy Cost (calories)
Adult Males	Color:	
Adult Females	Color:	
Juvenile Males	Color:	
Juvenile Females	Color:	



x-axis

## Analysis Questions:

- 1. For each location, list the subgroup that had the highest average energy cost as well as the average energy cost:
  - a. California Highest average: \_\_\_\_\_\_ Average: \_\_\_\_\_\_
  - b. South Africa Highest average: \_\_\_\_\_\_ Average: \_\_\_\_\_\_
- 2. Are there big differences or similarities between size classes within each location? What might cause those similarities or differences?

3. Are there big differences or similarities between sexes within each location? What might cause those similarities or differences?

4. Are there big differences or similarities between the two locations? What might cause those similarities or differences?

5. Do the graphs show the results you expected? Explain why or why not? Make sure to use some of the vocabulary we've learned in this lesson to explain your reasoning.