**Replicating Roaches Handout**

Group Members: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Replicating Roaches: Instructions and Questions

1. Make sure each group member can correctly identify male and female MHCs. What other distinguishing features do you observe? Write down MHC characteristics you think might affect food preference.
2. Come up with a plan for your group about how to select the MHCs for the study groups. Discuss the pros and cons of each group member’s ideas until you have decided on a plan for the whole group. Carry out the selection of the MHCs for the study groups. Make sure you describe the plan implemented in the space below.

The rest of the steps are outlined below for completing this experiment.

1. Each group member should choose a single adult MHC to observe and then place it in their container.
2. Have each group member identify whether their MHC is an adult male or adult female and record this information in the table below.
3. Once the MHC has stopped moving each student should gently place one piece of high-protein dry dog food and high-carbohydrate cereal directly in front of the MHCs head at equal distances and then record the time spent eating for each food for a period of five minutes in the table below. If the MHC eats two types of food record in separate rows the time spent feeding for each food.
4. Perform these steps with all 10 MHCs (five adult males and five adult females).

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| Sex of MHC  (Male or Female) | Type of Food | Time Spent Feeding  (In Seconds) |
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