|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **One Foot, Two Foot Activity Sheet**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_ Class:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**Part I: The challenge.**Your goal is to get from your home base (starting point) to your food source and then back again as swiftly as possible, bringing the food back to safety before you can eat it. On your first trial you must act as a quadruped, crawling on hands and knees through the obstacle course (wilderness) that your teacher has set up for you. While remaining on all fours, you must obtain your food at the end of the course and then bring it back safely to your starting point. On your second trial, you may act as the biped that you are, walking to the end of the course, procuring your food source and bringing it back to safety at your starting point. Your partner will be responsible for timing how long it takes for you to complete each trip. Then switch roles and you time for your partner. Enjoy eating while you complete the data table and questions that follow.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |  |
| --- | --- |
| **Trial** | **Time (seconds)** |
| **You as quadruped** |  |
| **You as biped** |  |
| **Partner as quadruped** |  |
| **Partner as biped** |  |

 |

**Part II Analysis**1. Were you faster as a quadruped or biped? What about your partner?
2. How did walking on all fours affect the way your feet, knees, hips, and back felt?
3. Did walking on all fours affect your vision in any way?
4. What are some of the advantages of being bipedal?
5. Remember that natural selection is partially based on an adaptation resulting in reproductive success. Describe how bipedalism might result in greater reproductive success for a species.
 |