As you work through these materials, find ways to keep your results consistent (or fair), such as: Leave your beads in the sunlight for the **same** amount of time (For example: 10 seconds), **make sure your beads are completely covered** by your material when they are in the sun, etc.

Take 10 of your beads and put them somewhere inside, away from the sun. What do the beads look like (color)? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Take 10 of your beads and put them somewhere outside, in direct sun. What do the beads look like (color)? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **(let your beads return to original color before moving on to the activity below)**

|  |  |  |  |
| --- | --- | --- | --- |
| Material to cover your beads with: | Result of beads in the sun (White, light colored, dark colored, etc): | Does this material protect the beads from the sun? | Would this material make a good shield from UV radiation? |
| 1. Aluminum foil |  |  |  |
| 2. Clear cups |  |  |  |
| 3. Colored cellophane |  |  |  |
| 4. Colored plastic cups |  |  |  |
| 5. Cotton fabric |  |  |  |
| 6. Envelope |  |  |  |
| 7. Paper bag |  |  |  |
| 8. Paper cups |  |  |  |
| 9. Plastic bag |  |  |  |
| 10. Styrofoam cups |  |  |  |
| 11. Choose your own material: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |  |  |

1. What color was your colored cellophane? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. What color was your colored plastic cup? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. Do you think the color of these materials makes a difference? Explain:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. Why did you pick the material you did for #11 in the table?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
3. Did any of the results surprise you? If yes, which ones? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
3.1 Why or why not?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. Which materials do you think might make good shielding for walls of a space house/habitat?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. Which materials do you think might make good shielding for windows of a space house/habitat?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_