**The Effectiveness of Sunscreen**

**Hands-On Labs, Inc. Version 42-0205-00-01**

**Lab RepoRt assistant**

This document is not meant to be a substitute for a formal laboratory report. The Lab Report Assistant is simply a summary of the experiment’s questions, diagrams if needed, and data tables that should be addressed in a formal lab report. The intent is to facilitate student’s writing of lab

reports by providing this information in an editable file which can be sent to an instructor.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data Table 1: Effectiveness of Sunscreen | | | | |
| **Petri dish #** | **Sunscreen** | **Bead color prior to UV ray exposure** | **Bead color immediately**  **after exposure to**  **UV rays** | **Place an x below to**  **indicate the dish with**  **the sunscreen that**  **provided the most**  **protection** |
| **1** | **Tropical Sands®** |  |  |  |
| **2** | **Safetec®** |  |  |  |
| **3** | **None (Control)** |  |  |  |
| **4** | **Personal Choice:**  **(Optional)** |  |  |  |

**Questions**

A. According to your experiment results, which sunscreen was most effective at blocking UV

rays? What led you to this conclusion?

B. Were any of the sunscreens able to block 100% of the UV rays from reaching the beads? How did your experiment results allow you to answer this question?

C. (Optional) How effective was your personal choice sunscreen in blocking UV rays? How did it compare to Safetec® and Tropical Sands®?

D. For each sunscreen tested, what were the active ingredients? How did the ingredients affect the sunscreen’s ability to protect the beads from UV rays?