**Cloud Chamber Observation Sheet**

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| --- | --- | --- |
| **Sketch the different path shapes  that you see in your cloud chamber:** | **Number of ionizing interactions per minute:** | |
|  | **Minute 1** |
| **Minute 2** |
| **Minute 3** |
| **Total =**  **Total / 3 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **(Mean interactions/min)** |

**Sketch your radioactive shielding design.**

*Make sure to label and describe the materials that each component of your shielding is made from*

|  |  |
| --- | --- |
| **Number of ionizing interactions per minute w/ shielding:** | |
| **Minute 1** |
| **Minute 2** |
| **Minute 3** |
| **Total =**  **Total / 3 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **(Mean interactions/min)** |

**Design checklist**

**Radioactive shielding should:**

* Allow you to still observe and count the number of ionizing interactions in your cloud chamber, even when the shielding is installed.
* Avoid contact with the chamber itself, the dry ice, and the remainder of your experimental setup.
* Lower the number of ionizing interactions per minute in your cloud chamber from your initial measurement.