**Hydroponic System: *Revisions & Details***

**System Type**

*Lead Students: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

*System Type & Description*

*Selection Rationale*

*Sources*

**Location**

*Lead Students: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

*System Location & Sketch:*

**Frame**

*Lead Students: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

*Materials*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item** | **Quantity** | **Cost/Unit** | **Total Cost** | **Source** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

*Design (include labels, dimensions, precise cuts)*

*Sources:*

**Water**

*Lead Students: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

*Materials*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item** | **Quantity** | **Cost/Unit** | **Total Cost** | **Source** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

*Nutrients & Protocol*

*Water Flow Regulation*

*Water Circulation Design & Description:*

*Sources*:

**Air**

*Lead Students: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

*Materials*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item** | **Quantity** | **Cost/Unit** | **Total Cost** | **Source** |
|  |  |  |  |  |
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|  |  |  |  |  |

*Purpose of air circulation*

*Protocol (e.g., timing)*

*Design (include dimensions, positioning & size)*

*Sources*

**Growing Materials**

*Lead Students: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

*Materials*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item** | **Quantity** | **Cost/Unit** | **Total Cost** | **Source** |
|  |  |  |  |  |
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|  |  |  |  |  |

*Growing Media & Containers:*

*Rationale:*

*Layout (e.g., spacing, container size)*

*Sources:*

**Lighting**

*Lead Students: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

*Materials*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item** | **Quantity** | **Cost/Unit** | **Total Cost** | **Source** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

*Light Source:*

*Lighting Protocol:*

*Layout (e.g., dimensions, positions)*

*Sources:*

**Plant Selection**

*Lead Students: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

*Materials*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item** | **Quantity** | **Cost/Unit** | **Total Cost** | **Source** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

*Plant Specifications:*

|  |  |  |  |
| --- | --- | --- | --- |
| ***Plant*** | ***Time to Germination*** | ***Time to Harvest*** | ***Growing Conditions (e.g., nutrients, lighting, temp.)*** |
| Basil |  |  |  |
| *Lettuce* |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

*Sources:*