**STAT Planning Worksheet**

Use the information from the System Decomposition worksheet to determine responses, factors, and constraints for each objective (the testable questions).

**Identify Responses:** Explain the measurement used to quantify the objective (the testable questions). The response should allow you to answer the testable question. Each response should be expected to be influenced by factors.

|  |  |  |
| --- | --- | --- |
| **Response** | **Description** | **Data Type** |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

Response Data Types: Continuous, Discrete Numeric, Binary, Nominal, Ordinal

**Identify Factors:** Which variables should be explored that may have an effect on the response?

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Factor Name** | **Data Type** | **Response** | **Units** | **Design Range** | **Anticipated**  **# of Levels** | **Exp. Control** | **Factor Changes** | **Priority** |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |

**Data Type**: Continuous, Discrete Numeric, Binary, Nominal; **Exp. Control**: Vary, Hold Constant, Record, Noise (Uncontrolled)

**Factor Changes**: Easy, Hard, Very Hard, Impossible; **Priority**: 1 = factors of interest, 2 = factors of secondary interest (not required), 3 = nuisance factors (want to minimize impact)

**Identify Constraints:** Test constraints, factor constraints, resource constraints, etc.

|  |  |
| --- | --- |
| **Constraint** | **Description** |
|  |  |
|  |  |
|  |  |