

Identifying Parts of a System

For each hypothesis list the parts of the system as controlled or manipulated. Then explain how you would design the experiment to prove the hypothesis, include the responding variable and how you would measure the data.

1. Hypothesis: **Sycamore trees drop their leaves in the fall because of the change in the amount of sunlight.**

Parts of the system

- | | | |
|----------|----------|----------|
| 1. _____ | 4. _____ | 7. _____ |
| _____ | _____ | _____ |
| 2. _____ | 5. _____ | 8. _____ |
| _____ | _____ | _____ |
| 3. _____ | 6. _____ | 9. _____ |
| _____ | _____ | _____ |

Manipulated Variable: _____

Experiment:

Responding Variable & Measurement: _____

Hypothesis: **The more water you add to eggs they will be fluffier when you scramble them.**

Parts of the system

- | | | |
|----------|----------|----------|
| 1. _____ | 4. _____ | 7. _____ |
| _____ | _____ | _____ |
| 2. _____ | 5. _____ | 8. _____ |
| _____ | _____ | _____ |
| 3. _____ | 6. _____ | 9. _____ |
| _____ | _____ | _____ |

Manipulated Variable: _____

Experiment:

Responding Variable & Measurement: _____