

Experimental Design Diagram (EDD)

1. **Pick a topic:** _____

2. **Identify MV** (*Manipulated Variable*): _____

3. **Identify RV** (*Responding Variable*): _____

4. **Write a scientific question:**

How does (MV) _____ affect (RV) _____?

5. **Identify 8 CVs** (*Constant Variables*):

6. **Write a title for your experiment:**

The effect of (MV) _____ on the (RV) _____.

7. **Write a hypothesis for your experiment:**

If the (MV) _____
is (*action word showing how IV is going to be "changed"*) _____
then the (RV) _____
will (*your prediction*) _____.
This will happen because (*scientific reason based on your prior research*) _____.

8. **Plan**

- (MV) _____ (*give units of measurement*)
- *Identify levels (changes being made to your MV. Be specific.)*
- *# of Trials: (Minimum 3)*
- (*Tell why it is important to repeat your experiment.*)

