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 <u>title</u> for your experiment: The effect of (MV) on the (RV) |
| 7. | Write a <u>hypothesis</u> 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 <u>(scientific reason based on your prior research)</u> |
| | |
| 8. | Plan |
| | • (MV) (give units of measurement) |
| | Identify levels (changes being made to your MV. Be specific.) ### Trials (Minimum 2) #### Trials (Minimum 2) ################################### |
| | # of Trials: (Minimum 3) (Tell why it is important to repeat your experiment.) |
| | (Tell wity it is important to repeat your experiment.) |

| | Experimental Design Diagram (EDD) |
|----|--|
| 1. | Pick a topic: (Must be able to test it!) |
| 2. | Identify MV (Manipulated Variable): (V you charge on purpose) |
| 3. | Identify RV (Responding Veriable): (What you measure observe) |
| 4. | Write a scientific question: FITB How does (MV) affect (RV) ? Identify a Cive (Secretary of the Property of th |
| 5. | Identify 8 CVs (Constant Variables): "influence, modify after List 8 things you try to Keap the same throughout the experiment. |
| 3. | Write a <u>fiffe</u> for your experiment: The effect of (MV) on the (RV) |
| 7. | Write a <u>hypothesis</u> for your experiment: |
| | is (action word showing howNV is going to be "changed") then the (RV) FITB will (your prediction) Be specific (Jell which will drange than out This will happen because (scientific reason based on your prior research) Se specific |
| 1. | Plan |
| | (MV) FITB (give units of measurement) Identify levels (changes being made to your MV. Be specific.) |
| | # of Trials: (Minimum 3) # of Trials: (Minimum 3) |