	Choose ONE of the two types of STEM Fair Projects	
	Experiment *(Comparing Items)*	**Innovation or Engineering** *(Create and Test)*
STEP 1	Have you ever wondered about how to make something faster, stronger, brighter, more absorbent, or dissolvable? Satisfy your curiosity here!	Do you have a problem in real life that you want to solve? Your solution can be high tech or low tech as long as it solves your problem!
STEP 2	***Choose a Question***	***Choose a Problem to Solve***
	- Which boils faster, sat water or tap water? - Teacher Approved Choice	- To design a device to stop my sister from going into my room! - Teacher Approved Choice
STEP 3	***Get Ready to Record and Present***	***Get Ready to Record and Present***
	<u>Use the Scientific Method</u> **Question**: How does one thing affect another? **Prediction**: If (what you are going to make happen), then I predict (what you think the result will be) because (the reason you think). Materials: The amount of each item used **Procedure**: Number and describe the steps so that someone else can replicate your project **Data**: Display your results in a table and/or graph(s) **Conclusion**: Did the data support your prediction? and a little bit more about what you learned **Reflection**: Successes, problems, surprises, questions, if I did it again	***<u>Use Design, Evaluate, & Redesign</u>*** **Problem**: What are you going to solve? **Purpose**: I designed (invention) so If (problem occurs) then (what the invention will do) and (how the problem is solved). **Materials**: The amount of each item used. **Design**: Blueprints, sketches, and methods used to build your prototype **Test:** Is it like you designed? Does it work? **Evaluate**: What adjustments must be made? **Redesign:** What did you add or subtract? *Re-test, Re-evaluate, Re-design…Re-Peat!* **Conclusion**: Successes, problems, surprises, questions, If I did it again.