

Engineering, Math & Computers

Computer Programming		Math Projects	
Engineering Process	Scientific Method	Mathematical Reasoning/Proof	
Define a need	State your question	Define what is known	
Do background research	Do background research	Research & define all terminology	
Establish design criteria	Formulate your hypothesis, identify variables	Make a conjecture/assumption based on what you know	
Prepare preliminary designs	Design experiment, establish procedure	Perform calculations	
Build & test prototype	Test your hypothesis by doing an experiment	Look for counter examples	
Test & redesign as necessary	Analyze your results and draw conclusions	Recalculate and write up steps to the conclusion	
Present results	Present results	Present results	

Scientific Method & Engineering Process Comparison used with permission from Science Buddies.