

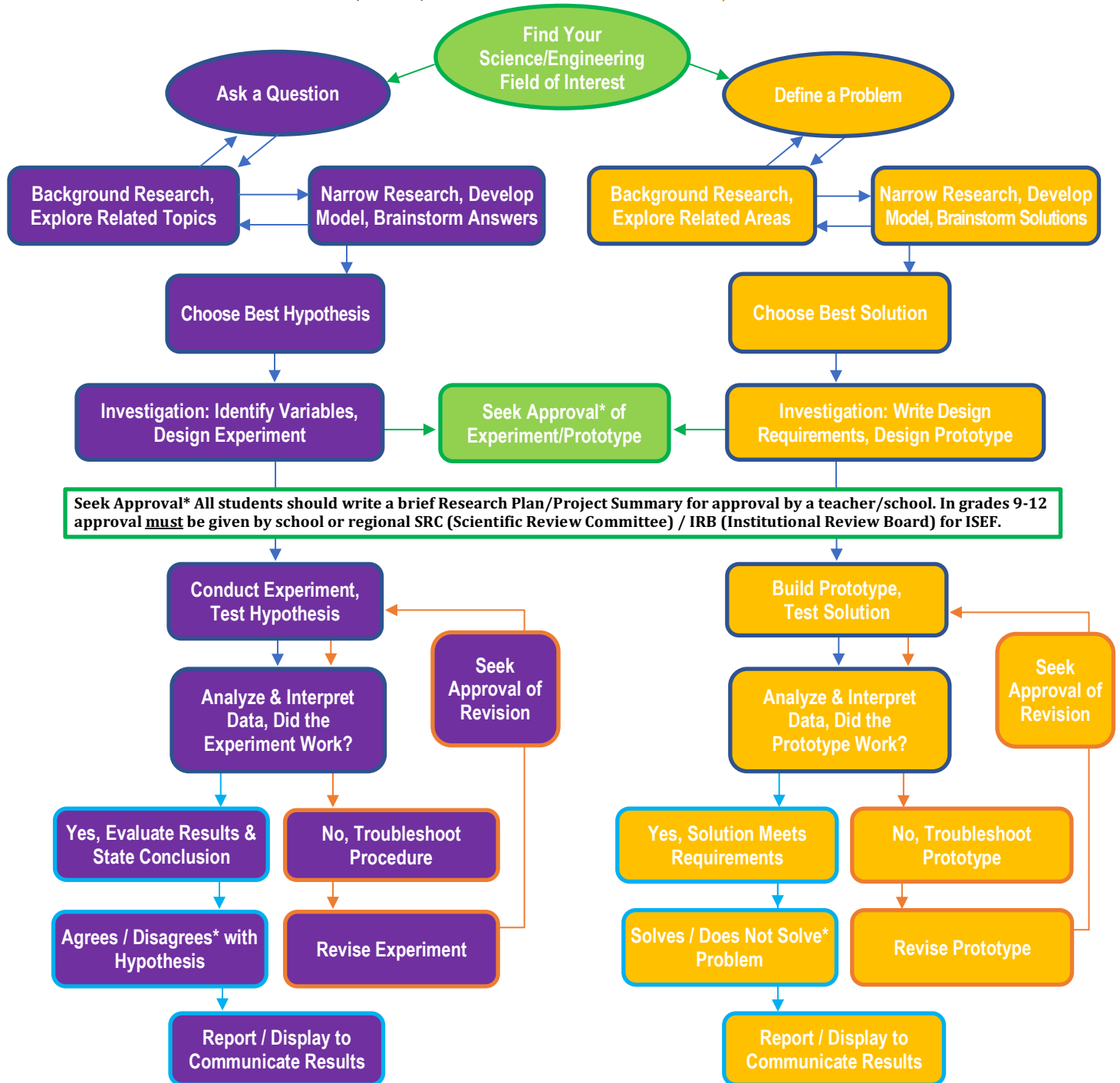
Comparison of Scientific & Engineering Practices

Science Projects

- How does nature work?
- Observe, explore, &/or model for the sake of knowledge
- Can be a theoretical or applied investigation
- Ask a question about a phenomenon
- Design a scientific investigation (experiment) to test a hypothesis
- Must control variables and be falsifiable (testable)

Engineering/Computer Projects

- Put nature to work: create something new
- Inventing, creating, and/or modeling
- Can be investigating "how" a device works
- Define a problem or need
- Design a solution to solve the need or problem
- Must be practical



Disagrees* or Does Not Solve* - Not all experiments or prototypes will result in a positive finding. If not then report your results and consider what hypothesis/solution you might propose next time.