

PROBING QUESTION

- Specific and focused
- *Why, How, and When* questions usually good
- A probing question will *not* be answered with *Yes* or *No*

RESEARCH

- Provides evidence of an investigation of written materials, electronic print, experts, attendance at conferences or lectures, ...

HYPOTHESIS

- A direct answer to the probing question
- Must be a statement you can demonstrate in order to prove or disprove

EXPERIMENT

- A fair test done in order to prove or disprove the hypothesis, controlling the variables
- Careful metric measurements
- Collection of accurate data
- Repetition—three to five times usually gives good results)
- Be sure the project is an experiment, not just a demonstration of someone else's experiment

ANALYSIS

- Inferences (reasons for observations) including some graph and/or data table

CONCLUSION

- Your opportunity to explain connections between the information, observations, and interpretations