

Sample Interview Questions

General Questions for All Projects

- Where did you get the idea for your project?
- Can you explain or describe your project?
- Describe your research process. What was the most interesting fact you learned during your research?
- How does your approach to the question differ from other scientists previous approaches?
- How did you collect your data?
- What type of measurement tools did you use?
- What are the most important things you learned from your project?
- How can you apply what you have learned to “real life” situations?
- What kind of help did you receive while working on your project?
- How much time did you spend working on your project?
- What were some challenges or obstacles you encountered while doing your project?
- What ideas do you have for future research
- What would you do differently next time?
- What lessons have you learned that will help you next time?

Science Division

- Can you identify your independent and dependent variables?
- Did you have a control group? Explain your control group.
- What did you do to make sure your test was fair?
- Can you walk me through how and why you decided on this Procedure/experimental design?
- Describe your data collection process. What did you measure?
- Tell me about how you analyzed your data. Why did you choose this type of graph?
- How many trials did you conduct? Why did you choose that number of trials?
- How many times did you test? Why did you test this many times?
- How did you analyze your data?
- Why did you choose this graph to organize your data?

Specific Engineering and Computer Science questions are continued on back.

Engineering Division

- How did you construct your prototype?
- Can you explain how you tested your prototype?
- Explain how your prototype changed from the initial design to your final design.
- Can you walk me through how and why you decided on this engineering design?
- If you had more time, what modifications would you make?
- Explain your charts/graphs/diagrams.

Computer Science Division - (Judges should actually use app, play game, or run robot.)

- Judge chooses a specific task in the program.
 - Where is this task in the code?
 - How did you decide how to code this section?
- What process did you use for debugging your program?
- Out of all possibilities, why did you choose to create **this** digital product?
- Why did you choose this coding language? (for example block coding versus JavaScript)
- Which string of code are you most proud of? Why?