

## Science Fair Time Line

September 22nd

### Question, Plan, and Hypothesis:

What question do you want to answer?

(Must identify why this question needs to be answered.)

How do you plan to answer the question?

Hypothesis shows cause and effect (Multiple hypotheses can be used to answer the question.)

September 29th

### Research Log:

Must have a bibliography with 6 references and 1 page of research from 5 different references

Research Plan: Question being addressed, Hypothesis, Procedures (include safety), Data Analysis, and Bibliography

(Instructions for Research Plan can be found at: [www.societyforscience.org/ISEF/](http://www.societyforscience.org/ISEF/))

(This web site is a reference on your bibliography.)

### HMS SCIENCE NIGHT!

October 5th

6:00–7:30 pm

Please attend!

Get valuable information about HMS Science and Science Fair

Pick up a free backboard and Science Fair packet

Have some Science fun with your family

October 6th

### Procedure and Materials:

Detailed steps of the procedure are written by the student and can be easily replicated. (Number and list every step necessary to complete your experiment.)

Detailed list of materials and amounts used (Metric)

October 13th

### Experimentation:

**Constants** (The parts of the experiment that stayed the same.)

Ex: amount of soil, water, sunlight, seeds etc.)

**Dependent** (Outcome) **Variable** and **Independent** (Test) **Variable** are correctly identified and manipulated

**Control Group** (The group that was not manipulated.)

**Safety Procedures** (These are written procedures to ensure that this experiment was conducted in a safe manner. ex: gloves, goggles, parental supervision)

October 20th

### Science Journal:

This is a hand written journal that you keep detailed notes in.

(Ex: dates, materials, procedures, measurements, observations, data, conclusions etc.)

October 27th

### Data and Results:

Data tables and graphs are in Metric and relate to hypothesis (Minimum of 5 Trials)

Explain your data and justify your results

**November 3rd**

**Conclusion:**

- Analyze your data and use it to draw conclusions
- Defend why your results supported or failed to support your hypothesis
- Relate your project to the real world
- Did you have any problems with experimentation? Sources of error
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**November 10th**

**Abstract:**

This is a summary (250 words or less) of your project and must include:

Purpose

Procedures

Data (no graphs)

Conclusion

(Abstract must be on the ISEF form and located on the lower left hand corner of the board. It can be typed on line at the ISEF site.

[www.societyforscience.org/ISEF/](http://www.societyforscience.org/ISEF/))

**November 27th**

**Completed Board, Research Log, and Science Journal are due:**

**Board** must display at least these key components:

(Question, Plan, Hypothesis, Experimentation, Procedures, Data, Results, Conclusion, Abstract)

It must be neat, organized, spelled correctly, and grammatically correct.

**Research Log**

**Science Journal**

\*All forms and rules can be accessed at: [www.societyforscience.org/ISEF/](http://www.societyforscience.org/ISEF/)

**Note:** Science Fair entries are subject to school, district, and state pre-approval. Because of deadlines for meeting state and district documentation requirements, we ask that students avoid engaging in experiments involving human subjects (psychology/ sociology), vertebrate animals (Pets, including fish, or other animals with backbones- insects are OK), bacteria/germs/molds/ or cheeses, potentially dangerous chemicals, or fire. **Please talk to your teacher about your ideas if you have questions.**