SCIENCE FAIR – WEEK 3

Hypothesis

Hypothesis means "what do you expect to happen in your experiment?" Suppose your research question is *What happens to seeds if I change the temperatures they are kept at before they are planted?*
The hypothesis might be **"the higher the temperature that seeds are kept at, the quicker I expect them to sprout."**

It's important to word your hypothesis correctly. For example, don't say "higher temperatures are better for seeds." "Better" cannot be measured. Decide on a hypothesis that can be proved in a measurable way. For example, **"higher temperatures will make the seeds sprout faster."**

It is perfectly fine for your experiment to disprove your hypothesis. If something unexpected happens during your experiment, the project doesn't need to be trashed. You just discovered something new and showed that what we expect is not always what we get.

As you can see on the Science Fair Rubric the best hypotheses make a clear prediction and based on some scientific knowledge. So you may add to the example hypothesis that **"the higher the temperature that seeds are kept at, the quicker they will sprout because in nature warmer temperatures are often shown to aid germination while cooler temperatures can slow or stop germination."**

	Working Below Expected Level	Working At Expected Level	Working Above Expected Level
Hypothesis	I tried to make a prediction of what I think will happen in a science experiment.	I can make a prediction of what I think will happen in a science experiment.	I can make a prediction of what I think will happen in a science experiment based on scientific knowledge.

Draft of my Hypothesis: