

*Turquoise Trail Charter School*

Name\_\_\_\_\_

*Science Project Proposal*

*Science Fair is January 31, 2019*

*Project due for a grade on January 25, 2019*

- *Proposal is due Wednesday, December 12, 2018*
- *Proposal must be signed by a parent or guardian.*
- *If Proposal is a joint project: Student's Parents must agree to aide students in meeting and working together over winter break or in early January.*

1. **Question** I will attempt to answer or **Problem** I will try to solve:

2. **Hypothesis** (predicted answer to the question):

3. I **Care** about this project because:

Name \_\_\_\_\_

4, I know how to get started on this project. I have done **Research** on this topic and I have learned some interesting information. Some of the things I have learned are:

5. The **Materials** I will use for my project are:

*I have DESIGNED my Project!*

Scientific Method:

I will **measure** and **observe**

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I will **repeat** my experiment \_\_\_\_\_ times. (trials)

Name \_\_\_\_\_

The **Independent Variable** (the thing I will change) will be

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The Controls (the things I will keep the same) will be

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Signatures needed:

I have discussed this project with parent(s) and teacher, and I believe I can follow through with this project to the end.

Student Signature \_\_\_\_\_ Date \_\_\_\_\_

I have discussed this project with my child, and I believe he/she can follow through with this project. I will help **guide** my child to complete this project. (if a joint project) My child may work with \_\_\_\_\_ and I will facilitate meeting times between them.

Parent Signature \_\_\_\_\_ Date \_\_\_\_\_

This project is:

Approved \_\_\_\_\_ Disapproved \_\_\_\_\_ Teacher Init. \_\_\_\_\_ Date \_\_\_\_\_

**(keep these last pages at home) Project idea due Dec. 10, 2018 Project Due Jan. 25 Science Fair: Jan. 31, 2019**

## **Parent Guide**

- 1. Pose questions through the process.**
- 2. Provide hints.**
- 3. Provide necessary materials**
- 4. Encourage thinking through questions, alternatives, answers and data, without giving them all the answers.**
- 5. Help them follow the teacher's guidelines or instructions.**
- 6. Help them gather background information, through research, to encourage good questions, appropriate conclusions and the ability to speak knowledgeably about their project. Practice presenting.**
- 7. Help select a project based on your child's interest, age-appropriate skills and knowledge. Keep it simple.**
- 8. Get Started Right Away! It is good to gather data over the winter break.**
- 9. It is OK if HYPOTHESIS is *incorrect*. Data must be VALID and there must be multiple TRIALS. Most science experiments are failures at the first**

round of testing. Then a new Hypothesis is made and trials are run again, then again, etc. We only have time for one round, so if their hypothesis is wrong, let them know ahead of time that this is normal and they don't have to start over or change their hypothesis to match data. That is a scientific no-no!!!

10. Have FUN working with your child!

**Project Ideas:** These sites are for parent use only. Children's questions must be their own. This is an inquiry based project. If you can't figure out how they could test their ideas, check here to help yourself guide them. Ideas must be testable!

[www.education.com/science-fair](http://www.education.com/science-fair)

[www.sciencebob.com](http://www.sciencebob.com)

[www.sciencebuddies.org](http://www.sciencebuddies.org)

[www.all-science-fair-projects.com](http://www.all-science-fair-projects.com)

[www.pbskids.org](http://www.pbskids.org) (Design Squad, Zoom)

[www.discoveryeducation.com/sciencefaircentral](http://www.discoveryeducation.com/sciencefaircentral)