

APSci Science Experiment Plan and Parental Approval

Project Title: _____

1. Identify a testable question:

What is the effect of _____
(the independent variable)

on _____?
(the dependent variable)

2. Research the topic:

What have people learned about _____?

My research sources will be: _____ (Be specific: list titles of websites, books, articles, authors...)

3. Write a hypothesis with if/then format:

(If the (IV) increases/decreases then the (DV) will increase/decrease...)

This is why I think so: *(This is based on my research which says...)*

Student Name _____

Date _____

4. Design a Procedure:

What I will change (independent variable):

What I will measure (dependent variable(s):

What will stay the same (controlled variables):

Steps in my procedure:

Student Name _____

Date _____

5. Materials:

6. Data: How will you know if the change you made had an effect?

(What data will you collect and what will you look for?)

7. Validation:

- ☐ My project is safe.
- ☐ I can get the materials.
- ☐ I have enough time to build, test, and report the project.
- ☐ My project will not harm organisms.
- ☐ My project will not harm or bother other people.

Student Name _____

Date _____

PCC 8th Gr. Science Experiment Timeline

Sept - Oct 2016	Learn about science experiment, choose topic to study
October 17, 2016	Background research report due
Nov. 14, 2016	Commit to a testable question, parent signature due
December 2016	Collect materials for experiment
Jan. 9-Feb. 13, 2017	Carry out science experiment (may start earlier if necessary)
Feb-April 2017	Write about experiment (graphs, lab report, display board)
April 10, 2017	Present experiment at PCC

Su	Mo	Tu	We	Th	Fr	Sa
January 2017						
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				
Feb 2017			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28				
March 2017			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	
April 2017						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15

Science Experiment Dates:

Set up experiment and begin recording data.
(Students may begin their experiment earlier if they wish.)

Data log checked in class (experiment still ongoing)

Experiment should be complete. Finish recording data.

Data log and graphs due.

Completed science experiment binder due.
(binder includes: research rpt, data log, graphs, lab report)

Display boards and oral presentations in class.

Parent's approval to begin the science experiment described on the attached pages:

Parent Signature

Date

Student Name _____

Date _____