Name Class	Date
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## **Science Fair**

#### **Guidelines and Due Dates**

<sup>\*(</sup>Your child will receive 5 bonus points on their project grade if this sheet is signed by you and handed in with the final project!)

Parent and Teacher Initials	<b>Due Dates</b>	Part of Project	Points Towards Final Grade
	601: 4/13 602: 4/13 603: 4/13 604:4/13	<u>Topic Proposal</u> : Students will hand in a brief summary of their experiments. (see attached form)	15
	601: 5/8 602: 5/8 603: 5/7 604: 5/8 Note: if you need an extra week to work on collecting data please tell me in advance	Rough Draft of Lab Report: Title, Question, Background Information, Hypothesis, Materials, Procedure, Data table, and Background Research form must be included. Please make sure the Evaluation form is also attached.*The final draft of the lab report MUST be typed!	15
	601: 5/15 602: 5/15 603: 5/14 604: 5/15	Final Draft of Lab Report: Must be typed and include all parts of the report AND include a minimum of 3 trials of your experiment. Make sure your rough draft is included. (The final draft of the lab report will be counted a second time as a separate grade.)	20
	601: 5/18 602: 5/18 603: 5/18 604: 5/18 Presentations will	Presentation Board: Students will complete a presentation board to visually show how they followed the scientific method. Start this AFTER you get your final draft back. (See attached format)	20
	begin the week of 5/18. I will need time to decide who to take to expo on June 6th so these	Materials: Students will use materials used in their experiments as props during their presentations. Students are <i>NOT</i> to recreate their experiments during their presentations.	5
	dates are not flexible.	<b>Presentation:</b> Students will speak about their projects in a 2-5 minute presentation. I will ask for volunteers first, and then we will go in alphabetical order.	25

<sup>\*</sup>You may work alone, with a partner, or a group of no more than 4 people total.

<sup>\*</sup>This is a mandatory project that must be completed AT HOME. Students will be given SOME class time to work on the writing component of their projects, but must complete the investigation at home!

<sup>\*</sup>A copy of this document can be found on <u>contonascience.weebly.com</u> on the "Resources page". The document is titled "Science Fair."

Name		Class	Date
	Topic P	roposal	
• To help you choose a topic, go to			
• Click on "Take Survey!" Buttor	1		
			hat area of science you are interested
	you want EXCEPT vo	olcanoes, earthq	uakes, anything that explodes, or the
<ul><li>Mentos experiment.</li><li>The experiments on the website</li></ul>	list the cost and diffi	oulty loyal of an	ah avnariment
<ul> <li>You may also use an experimen</li> </ul>		•	1
			ty/the world. For example, how can
			ool/community/your home or building
more environmentally friendly?			omehow?
(Continue on the back of the page			
1. How could your research be	used to make change	s in our commu	nity/world (CIVICS!)?
			·
2. What is the title of your experime	ont?		
2. What is the title of your experime	511t !		
3. List your Independent Variable (	IV), Dependent Varia	ble (DV), and C	Constant Variables (CVs).
IV:	·····	, ,,	, ,
DV:			
CVs:			
4. What materials will you need? M	ake sure these materi	als are inexpens	sive and easy to find!
5. What will your procedure be? (B	riefly describe how y	ou will collect y	our data and how long it will take.)

Name	Class	Date
<ol><li>List the new terms and concepts you will need discussion is thorough.</li></ol>		,
7. How will you keep track of your data? Sketch		
***Keep in mind-You MUST complete at least 3 trials of	your experiment!!! Plan to	have enough time to complete these trials before

Your data table would look like this:

Independent Variable:	Dependent Variable:			
	Trial 1	Trial 2	Trial 3	
What is one of the levels of your IV?				
What is one of the levels of your IV?				
What is one of the levels of your IV?				

the Final Draft of the Lab Report is due!!!

Name		Class	Date	
		b Report Forma		
<u>Title</u> : The effect of	on			
<b>Question</b> : What is	the effect of	on?		
understanding your	experiment BEF	3 paragraphs explaini ORE you started it. Sa criment for the discuss	ave the information	on about what you
<b>Hypothesis</b> : If	then	_ because		
Materials: List the	materials you use	ed.		
Make sure to accoun	nt for the IV, DV	ential(in order) steps, , CV, and repeated tri the procedure word for	als. If you are using	
<u>Data</u> : Diagrams, pic	ctures, data tables	s, graphs, sample calc	ulations, brief sun	nmary of findings.
<b>Discussion</b> : claim, 6	evidence, scientif	fic reasoning.		
•		not support) my hyponer research and expe	-	hy and what it

<u>Literature Cited</u>: List the sources you used to help you do background research and write your discussion. (Fill out a BRO for each source you use and attach it to the back of your lab report before the evaluation form.) NOTE: On your presentation board, list your resources in alphabetical order.

**CIVICS**: Write a reflection on how your project is related to civics. How will your research improve your community/world?

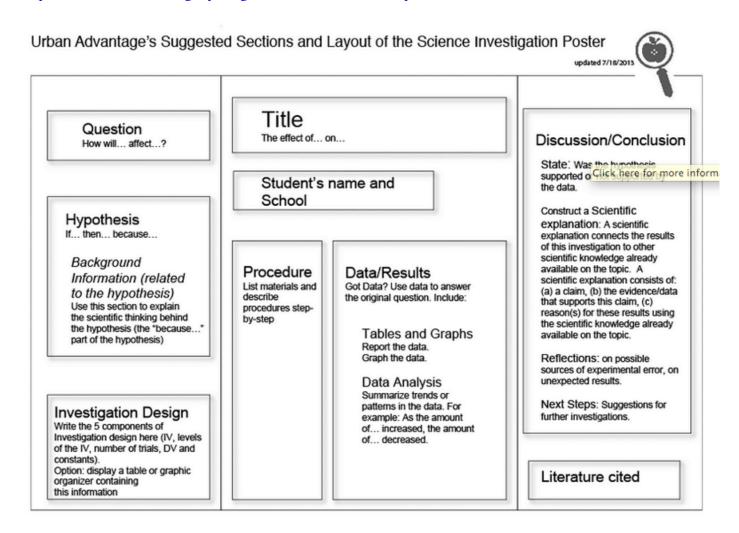
\*\*\*\*SEE RESOURCES ON <u>contonascience.weebly.com</u> FOR A COPY OF THE LAB REPORT OUTLINES\*\*\*\*

Name	Class	Date

### **Presentation Board**

- A display board can be purchased at Staples for around \$9.
- The display board has three sides so that it is free standing.
- Refer to the diagram below for a format for the display board. You can also "google" "sample science fair display board" for pictures of student samples.
- This board will be used a visual aid during presentations and will be displayed at the school science fair.
- IMPORTANT NOTE: The board will be easy to put together if the lab report is simply formatted into a larger font! (50-72+ is a good size) Cut and paste what you have already written. **Do not have things** hanging off the sides of the board-layer pages if you are running out of room.
- Add color to make your board visually interesting, but do not make it too busy!
- Do not include any images or charts that you are not familiar with just to take up space!!
- The diagram below will be posted as a PDF below the science fair document in case you cannot read it in this document on your computer.

http://www.urbanadvantagenyc.org/site\_res\_view\_folder.aspx?id=5140c0ac-b27f-4332-ab37-4aaf87418482



Name		Class	Date
	<b>-</b>		

#### **Materials**

- In addition to the display board, each student should bring materials from the experiment to use as props during the presentation. Students **will not** be performing their experiments in front of the class.
- It is strongly recommended that students take pictures of the experiment as they are doing it. If pictures cannot be taken, the student should draw detailed diagrams.

#### **Presentation**

- The presentation should be 2-5 minutes long.
- During the presentation, the student should briefly introduce the topic of the experiment, summarize the procedure for the experiment, and summarize their discussion and conclusion.
- Everything needed to complete the presentation should be in the lab report and on the board. However, note cards may also be used as a presentation aide.
- If ANY student is not acting respectfully during a classmate's presentation, that student will receive a 0 on their presentation and will automatically be disqualified from attending the UA Expo on June7.

#### **Rubrics**

We will be using the Lab Report Rubric to assess our projects and a presentation rubric that will be handed out and reviewed shortly before presentations begin.

Please email me with any questions, comments or concerns!!

ms.contona@gmail.com

Extra help can be provided during lunch at a student's request on Tuesdays and some other days that will be shared with students when I am available.

Background Research Organizer
Your research should provide you with answers to questions that are essential to understanding your topic. You should gather information from a minimum of $\bf 3$ sources for this investigation.
IV=
DV=
Question: What is the effect of the IV on the DV?  Question:
Source #1
Reference: Where did you find this information?
Direct Quote(s) from Source:
Paraphrase of Quote(s):
HOW does this relate to the topic you are researching? WHY is this important to your investigation?

Name\_\_\_\_\_ Class\_\_\_\_ Date\_\_\_\_

<sup>\*\*\*</sup>Make sure that the information you are finding is relevant to your question!\*\*\*

Name	Class	Date
Question:		
Source #2		
Reference: Where did you find this info	ormation?	
Direct Quote(s) from Source:		
Paraphrase of Quote(s):		
HOW does this relate to the topic you a	are researching? WHY is this impo	rtant to your investigation?
220 (		

\*\*\*Make sure that the information you are finding is relevant to your question!\*\*\*

Name	Class	Date
Question:		
Source #3		
Reference: Where did you find this infor	mation?	
Direct Quote(s) from Source:		
Paraphrase of Quote(s):		
HOW does this relate to the topic you ar	e researching? WHY is this impo	ortant to your investigation?

\*\*\*Make sure that the information you are finding is relevant to your question!\*\*\*

Name	Class	Date

# **Presentation Evaluation Form**

During the presentation, students should have materials present, speak clearly, make eye contact, and be knowledgeable about their topic.

Name:	Teacher: Ms. Contona
Title of Experiment:	

<u>Criteria</u>	Score
Board is complete with all parts present.	0, 3, 5
Student is able to fully explain the scientific explanation for their results.	0, 5, 10
Student speaks clearly and not too quickly. He or she is easily heard in the back of the room. Student makes eye contact while he or she speaks and does not read directly off the board during the whole presentation.	0, 3, 5
Presentation board is colorful, neat, and attractive.	0, 3, 5
Materials are present for use as props for the presentation.	0, 5
Total points earned = Presentation grade>	

#### **Teacher Comments**: