Name	Date

## **My Science Project Packet**

12 Easy Steps to Science Project Completion
A Step-by-Step Guide for Students

	: Choose a topic. Think about what science topic interests you <u>or</u> a question that you to find the answer to.
	☐ Check here if you have picked a science project. Write your name on it and place it in your science fair folder.
Proj	ect Topic:
Wha	nt is the purpose of your project/experiment?
<u>PUF</u>	RPOSE:
Cre	ate an interesting and catchy title that relates to your purpose and project topic.
<u>Titl</u>	<u>e</u> of your Project:
	: Write a <i>problem</i> . Turn the purpose into a question. You will investigate this big stion during your experiment.
PRO	DBLEM:
	long will your project take to complete? When will you need to start your project so that ready in time for the fair?

Name	Date
ep 3: Research your project topic. You of and other sources. Write five or more fac	can use books, encyclopedias, magazines, the interects about your topic below:
Topic:	
RESEARCH:	
REFERENCES: Where did you find you books and websites you used to find your	r information? Write the names and authors of the facts below.

Name		Date
4		
outcome	Write a <i>hypothesis</i> for your project. This is an educat ne of your experiment will be. Look back at your rese nappen in your experiment based on what you learne	earch. Really think about what
you comprejected	mplete your experiment your hypothesis will either b d (what you thought would happen didn't). It is ok if	e proven (you were right) or your hypothesis is rejected. You
•	ed to explain in your conclusion why you think it was e for the next time.	s rejected and what you might
_	I hypothesis has these four elements:  1. Restates the question	
	<ol> <li>Provides an educated guess about what will happ answer to the question)</li> </ol>	en in the experiment (predicts the
	<ul><li>3. Explains why you think this will happen and uses</li><li>4. Can be tested with an experiment.</li></ul>	s ideas from research to back it up
	Praft Hypothesis: Write a hypothesis below that follow scher read it over and offer suggestions for improvem	
<b>,</b>	I	
Once you	our hypothesis has been edited, write a final draft be	low.
HYPOT	THESIS:	

Name	Date
tep 5: List the materials and w	vrite a procedure.
MATERIALS: List the material	ls needed for your project. Make sure to include amounts with easurement tools if you used any (example: ruler, measuring cup).
PROCEDURE: Write the direct detailed in what has to be done. So complete the experiment just as	tions for completing your experiment. Number each step. Be very Someone else should be able to follow your procedure and you did. <i>Use your own words!</i>

Name	Date

## **AT HOME**

### **Step 6**: Gather the materials needed for your project.

☐ Check here if you have gathered all of your materials.

#### Step 7: Conduct your investigation and collect data.

- Record the data from your experiment below. Use another sheet if you need to.
  - o Write down all of your observations and measurements below.
  - o Be sure to write your data in an organized like in a table or chart.
  - o Draw pictures of your experiment on another sheet. Don't forget labels!
  - o Take photos of the experiment and yourself performing the experiment.

Journal of Data and Observations:			

Name	Date
tep 8: Write your results. Write one graph to display your data.	e paragraph to summarize your results. Create a table and
RESULTS:	

**Table:** 

Name	Date	
Step 9: Draw a conclusion.		
CONCLUSION: What happened in your experiment? What do your data and observations tell you? Was your hypothesis proven or rejected? What did you learn from this project? Look back at your research and include science concepts and ideas in your conclusion. After doing this experiment do you have any new questions that you would like to explore?		

Na	me Date
_	<b>Exercise 10:</b> Type your project into the project PowerPoint. When you are finished typing you ast proofread and edit your work before printing your final copy.
Fo	llow the directions below to open the PowerPoint template and save it:
<ol> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> </ol>	Go to Park Avenue School's webpage: <a href="http://orange.schoolwires.com/park/site/default.asp">http://orange.schoolwires.com/park/site/default.asp</a> Click on Staff Websites. Click on Samantha Sica. Click on Science Fair Resources. Click on Science Project Presentation Template. Follow the directions on the screen.  All students will receive computer lab time to type their projects.
Pr	oofread and edit.
	• Proofread your project and edit any mistakes. Did you adjust your materials and procedure to match what you actually used and what you actually did? Did you describe your results in detail? Did you write a conclusion stating what you found out in your experiment and what science concepts you learned during the project?

• Have a classmate proofread and edit your project.

Student Proofreader's Name:	Date:	
• Have an <u>adult</u> proofread and edit your project.		
Adult Proofreader's Name:	Date:	

• Submit your edited second draft to your teacher. Your teacher will do the final edit.

Once all parts of your PowerPoint presentation are complete and edited, your teacher will print your project for you and you will receive a display board.

Name	Date
------	------

### Step 11: Build your display. Create your exhibit and presentation board.

- Use the layout below to create your display board.
- Make it neat, colorful and attractive! Include pictures!
- Write your name, grade, teacher, and school on the <u>back</u> of your board. This will keep things fair during the judging.

# Science Project Display Board

### **Materials**

List what you used for your experiment

### **Procedure**

- 1.
- 2.
- 3.

Research
Facts about
your topic

# The Title of the Project

### Purpose/ Problem

What do you want to find out?

## **Hypothesis**

What is your prediction/ educated guess

Photos, pictures or drawings of your experiment and you conducting the experiment

Leave this bottom space open so that you can place your project/experiment materials on the table in front of your board and it will not cover what is on your board.

### Results

Charts/Tables Graphs Written observations Drawings

### Conclusion

Sum up what you learned in your project

### References

Your sources

*Only projects that follow the	criteria below will	be submitted to ente	er the science fair*
only projects that lonow the	criteria below will	be submitted to ente	i the science fair

- ☐ Project displays an experiment with a hypothesis that can be tested
- $\hfill \square$  Includes each category from the science fair judging rubric
- ☐ Follows the scientific method
- ☐ Typed with no grammatical, sentence structure or spelling errors
- ☐ Neat, colorful and attractive display board
- $\ \square$  Display includes pictures or video
- $\square$  Display of the experiment/materials used

All projects that do not meet the above criteria will be displayed in or outside the student's classrooms.

### **Step 12**: Prepare an oral presentation.

- Plan your presentation.
  - Place notes on index cards to guide you during your presentation. Be ready to answer questions from your classmates and teachers.
- Bring your project display board <u>and</u> experiment to school on the due date. Carry the project materials in a bag, container, or box that has your **name** on it!
- Present your project to the class and demonstrate your experiment (if possible).