The image shows the cover of a 'Science Fair Project Planner'. The title is written in a large, bold, black, rounded font across three lines: 'Science Fair', 'Project', and 'Planner'. The text is centered on a light green rectangular background. This green area is surrounded by a thin black border, which is itself set within a larger black frame. Scattered around the green area and within the black frame are several circles of varying sizes in light blue and pink. The overall design is simple and colorful, typical of a student project planner.

# **Science Fair Project Planner**

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## **Science Fair Project Planning Packet**

Group Members: \_\_\_\_\_

✓	Due Dates	Things To Do
		Choose topic and write project question.
		Get approval from your teacher.
		Research your topic and write key words and paragraph.
		Write a hypothesis.
		Design an experiment; list variables and write procedure.
		List and gather your materials.
		Conduct experiment and record data and observations.
		Create a table, chart, or graph of the data.
		Draw conclusions.
		Make the project display.
		Write and print abstract
		Turn in planning packet to teacher.
		Present your project at the science fair.

1. Think of a Question - Your question will drive your entire project. Make sure that your question is something that can be measured and answered by following the scientific process. You may use the project question for your project title.

### **Project Question**

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2. Research Your Topic - spend some time with your group learning more about your topic. Use reliable Internet sources, books from the library, your science book, or other resources. Not only do you want to be an expert on your topic, but you want to teach others about your topic.
  1. *Key Words* - locate at least 3 key science words related to your topic. Your science book is an excellent place to find these. Make sure that the words you choose are directly related to your topic. Provide a definition of each key word IN YOUR OWN WORDS.
  2. *A paragraph describing the science behind your project* - after you have completed your research give us, your audience, some background information on your topic in a complete and well-written paragraph (5-7 sentences). Give us specific, rather than general information. Use the space provided to write a draft. You will edit a final copy to place on your display board.

## Key Words

Key word	Definition

## Research Description

[illegible]

3. State Your Hypothesis - In your group decide what you think the outcome of the project will be and make a good guess as to what you think the answer to your question will be. **Also explain WHY you think that will be the outcome.** Remember, it is ok if you don't have the right answer; that is how scientists make discoveries. Make sure that your hypothesis is written in a complete sentence.

### Hypothesis

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4. Design Your Experiment - Clearly write out the procedure you are going to follow. Remember that your experiment needs to follow the scientific process and that you need to have one variable that you are going to change (independent variable). There are three variables in a scientific experiment: independent, dependent, and controlled.

1. The *dependent variables* are the ones that you will keep the same throughout the experiment.
2. The *independent variable* is the one, and only one, variable you will change.
3. The *controlled (or constant) variable* helps you, the scientist, understand how the experiment would react under normal circumstances.

### Variables

1. Dependent variables: \_\_\_\_\_

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2. Independent Variable: \_\_\_\_\_

3. Controlled (or constant) Variable: \_\_\_\_\_

## Procedure

[illegible]

5. Gather Materials - list all the materials that you will need to complete your experiment.

### **Materials**

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6. Conduct experiment – when you do your experiment you need to collect data and make observations. You will complete these in your Experiment Log. After you have completed the experiment use your log to write down the data and observations below. In your log you will need to:
1. *Collect Data* - you will need to collect numerical data; that means you need to take measurements during the experiment. It can be temperature, distance, height, etc. You will analyze the data later to determine the results of your experiment.
  2. *Make Observations* - as you conduct your experiment you will use your senses (sight, smell, touch, etc.) and write down any observations you make during the process.

### **Data**

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## Observations

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7. **Determine the Results** - Now it is time to review your data and observations to find out what happened. Think about the best way to show your data: bar graph, line graph, chart, etc. and then create a table or a graph using your data. Write out the results of each test in the experiment in paragraph form using complete sentences. Make sure that you include the numerical data (measurements) as well as any other important observations that you made.

## Results (graph or chart)

Use this space, or a separate sheet in your notebook, to sketch 1 or more tables, charts, or graphs to analyze your data.



## This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

- Conclusions**

Answer to your original question: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Is your hypothesis correct or incorrect? If incorrect, why?

If you were to complete this experiment again, what changes would you make? How would you improve this experiment?

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9. **Display board** - Now that you have completed your experiment you will begin setting up your display board to communicate the results of your experiment to others. Remember, the board is graded on the information not how colorful or pretty it looks. Your display board must have ALL of the following components located in the same places. Other board guidelines:
- Font should be easy to read and at least a size of 16pt or greater.
  - Photos should not include faces of students
  - Information on the board can be typed or written neatly by hand.

### **Display Board**

<b>Hypothesis</b>  <div></div> <b>Key Words and Research</b>  <div></div>  <b>Procedure and Materials</b>  <div></div>	<b>Question/Title</b>  <div></div>  <b>Photos or Drawings</b>  <div></div> <div></div> <div></div>  <b>Graphs</b>  <div></div>	<b>Results</b>  <div></div>  <b>Conclusion</b>  <div></div>
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- Introduction
- Project Question
- Procedures
- Results
- Conclusions

## Abstract Introduction

[illegible]

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## Science Fair Grading Rubrics

**Group Members:** \_\_\_\_\_

### Science Fair Project Components

Component	Points Possible	Points Received
Science Fair Project Planning Packet	10 pts	
Display Board with: <ul style="list-style-type: none"> <li>• Question/Title</li> <li>• Hypothesis</li> <li>• Key Words</li> <li>• Research</li> <li>• Procedure and Materials</li> <li>• Photos/Drawings</li> <li>• Chart or Diagram</li> <li>• Results</li> <li>• Conclusion</li> </ul>	10 pts	
Experiment Log	10 pts	
Abstract	10 pts	
TOTAL →	40 pts	

### Science Fair Project Content

Content	Points Possible	Points Received
Question * Question is relevant and testable through experimentation	5 pts	0 1 2 3 4 5
Hypothesis * Hypothesis is based on observations	5 pts	0 1 2 3 4 5
Research * Key words and research are relevant to the question being tested	5 pts	0 1 2 3 4 5
Procedure * Procedure is clearly outlined and presents a controlled experiment	5 pts	0 1 2 3 4 5
Results * Results are communicated clearly through graph/chart and well written explanation	5 pts	0 1 2 3 4 5
Conclusion * Conclusion includes appropriate evaluation of data and proves or disproves the hypothesis	5 pts	0 1 2 3 4 5
TOTAL →	30 pts	

0 = Not Presented	1 = Below Standard	2 = Minimum Standard	3 = Average Standard	4 = Above Standard	5 = Exceptional/Outstanding
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**Name:** \_\_\_\_\_ **#:** \_\_\_\_\_

## Science Fair Reflection

1. What went well with your science fair project?
2. What didn't go so well with your science fair project?
3. How well did your group stay on task to meet deadlines?
4. How well did your group work together during the science fair?
5. What would you do differently if you were to do the science fair project over?
6. Please use the rubrics on the back to score yourself and your partner(s). 1 is the lowest score and 5 is the highest.

## Science Fair Self and Peer Score

Name: ME

Ability to work as a group, share responsibility, and solve problems appropriately.	<b>1   2   3   4   5</b>
Ability to stay focused and on task during science fair time.	<b>1   2   3   4   5</b>
Comments:	

Name: \_\_\_\_\_

Ability to work as a group, share responsibility, and solve problems appropriately.	<b>1   2   3   4   5</b>
Ability to stay focused and on task during science fair time.	<b>1   2   3   4   5</b>
Comments:	

Name: \_\_\_\_\_

Ability to work as a group, share responsibility, and solve problems appropriately.	<b>1   2   3   4   5</b>
Ability to stay focused and on task during science fair time.	<b>1   2   3   4   5</b>
Comments:	