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## 11.4 Developing and Implementing a Project Plan

MathLinks 9, pages 440-443

## Step 1: Develop the project plan.

You may wish to refer to your work on BLM 11-9 Section 11.2 Math Link.

a)	Write the research question. Check that your question is clearly written and free of influencing factors.
b)	Write the hypothesis. Be specific and limit your hypothesis to one sentence.
c)	Identify and describe the population.
d)	Describe how you will collect data from studies and surveys that have already been done. Where will you look?
e)	List at least three studies related to your research question. Include complete source information. Record your notes for the studies on <b>BLM 11–11 Section 11.3 Math Link</b> , on index cards, or on a separate sheet of paper.

Use <b>BLM 11–12 Research Project Rubric</b> to create your rubric.		
Step	3: Continue to develop the project plan.	
a)	Describe how you will organize and display the data.	
b)	Describe your method for analysing the data from the studies you find. Consider the following ideas.	
	• Describe any assumptions that were made. Explain the limitations of each assumption.	
	• Discuss the accuracy of any predictions made about the population.	
c)	Describe how you will present your findings. You might choose a written or oral report, use technology, or use a combination of formats.	
Step	4: Complete the project according to your plan.	
a)	Display and analyse the data on separate sheets of paper.	
b)	Draw a conclusion or a prediction you can make from the data.	

**Step 2: Create a rubric to assess your project.** 

Date: \_\_\_\_\_

c) Evaluate the research results. Consider using the following questions.
• Do the data answer your question or do you need to do further research?
Do the data support your hypothesis? Explain.
Are the data biased? Explain.
<ul> <li>What questions could you ask as a result of your research?</li> </ul>
<ul> <li>What other sampling methods could have been considered?</li> </ul>
<ul> <li>Troubleshoot any problems you had, such as the following:</li> </ul>
– Was your research question too broad?
- How well were the data collected?
- Were there influencing factors on the collection of data? If so, what were the influencing factors?
Step 5: Present your findings.
Present your findings in a format of your choice. Check off each item as you include it.
a title indicating the purpose of your project
a research question and a hypothesis
a description of the population
for the studies researched,
the sampling methods used
the methods used to collect data
the results and conclusions
your display of the data and data sources
your conclusion to answer the research question
your evaluation of the research results
a hibliography of all sources

Date: \_\_\_\_\_

-	<b>6: Self-assess your project.</b> e rubric you developed to assess your research project.
a)	For which criteria was your project strong? Explain.
b)	For which criteria was your project weak? Explain.
c)	Did the project meet the requirements you set? YES NO Explain.
d)	Identify two things you liked about your project.
e)	Identify one thing you would do differently next time.
	Have a classmate who read or watched your presentation assess your project using the rubric. Ask for constructive feedback on how to improve the project List the most useful feedback you received. Use the list to improve your proje

Date: \_\_\_\_\_