

STEAMfair.org

STEAM Project Ideas - Brainstorming

Name →

Possible Topics

#1-

#2-

Testable Questions or Testable Engineering Design Ideas

#1-

#2-

Why are you interested in these? (Add x's to the lines)

#1

- ___ You love this idea!
- ___ It is unique & perplexing to others.
- ___ Your idea has application to the real world.
- ___ Your proposal solves a problem.
- ___ It provides new information.
- ___ It reflects a diversity of research resources.
- ___ You will be able to complete it within the time limits.
- ___ It provides a useful tool.
- ___ It appeals to the interests of an audience.
- ___ You have or can find access to the materials necessary to complete.
- ___ The costs of materials are within your budget.
- ___ It reflects complexity of research and exhibits an impressive level of difficulty.
- ___ Your proposal idea is creative.

#2

- ___ You love this idea!
- ___ It is unique & perplexing to others.
- ___ Your idea has application to the real world.
- ___ Your proposal solves a problem.
- ___ It provides new information.
- ___ It reflects a diversity of research resources.
- ___ You will be able to complete it within the time limits.
- ___ It provides a useful tool.
- ___ It appeals to the interests of an audience.
- ___ You have or can find access to the materials necessary to complete it.
- ___ The costs of materials are within your budget.
- ___ It reflects complexity of research and exhibits an impressive level of difficulty.
- ___ Your proposal idea is creative.

STEAM Fair IDEAS & Background Research - Ideas #1 & #2
Use these TWO PAGES to guide your planning and research.

Background Research Idea 1 _____

<p>Make a list of related KEYWORDS you should know to be an expert on your topic.</p> <p><i>Copy & Paste the links to sources in the list on page 2.</i></p>					
<p>Write down some interesting questions you create about the HISTORY of your topic.</p> <p><i>Copy & Paste the links to sources in the list on page 2.</i></p>					
<p>What are 2 SIMILAR EXPERIMENTS or DESIGNS that have been done that you can research?</p> <p><i>Copy & Paste the links to sources in the list on page 2.</i></p>	#1				
	#2				
<p>Write down other important research questions (things you are curious about or things you should know TO BE AN EXPERT ON YOUR TOPIC) Develop one question for each of the following starters:</p>	Why...				
	What...				
	When...				
	Where...				
	How...				
	Who...				

Background Research Source List - Topic Idea #1

Link for Source #1	
Link for Source #2	
Link for Source #3	
Link for Source #4	
Link for Source #5	

STEAM Fair Project - Background Research
Use this template to guide your design report and research.

Background Research Idea 2 _____

Make a list of related **KEYWORDS** you should know to be an expert on your topic.

Copy & Paste the links to sources in the list on page 2.

Write down some interesting questions you create about the **HISTORY** of your topic.

Copy & Paste the links to sources in the list on page 2.

What are 2 **SIMILAR EXPERIMENTS or DESIGNS** that have been done that you can research?

Copy & Paste the links to sources in the list on page 2.

Write down other important research questions (things you are curious about or things you should know **TO BE AN EXPERT ON YOUR TOPIC**) Develop one question for each of the following starters:

#1

#2

Why...

What...

When...

Where...

How...

Who...

Background Research Source List - Topic Idea #1

Link for Source #1

Link for Source #2

Link for Source #3

Link for Source #4

Link for Source #5