

Learning Through Inquiry and Research Ideation Tool

Learning Through Design and Manufacture Ideation Tool

I am investigating person event place issue and/or _____.

1st What do you know about it?

I am planning to manufacture _____.

I got the idea from _____.

1st What do you know about it?

My question/s:

2nd What do want to know?

To explore ideas related to your investigation, ask the five W's + H questions.

My notes:

2nd What do want to know?

Investigate a similar or existing item to your design idea by asking the five W's + H questions.

3rd What method of inquiry will you use to research?

3rd Investigate materials you will consider using.

Data source: photo/artifact text/film Google Earth/thematic map table/graph other _____.

Create your own data source: survey interview other _____.

Primary source secondary source

Title:

Author:

What is it?

What are its useful properties?

What technique will I employ to use this material safely?

To help answer your question from an existing source, you can use the other side of the **WR Inks** to guide your research. However, if you are creating your own data collection source, such as a survey (questionnaire, table, graph) or interview (questions and answers), then use the space below.

Are you designing your own data collection tool?

4th

Analyse your data.

What do you believe the data is telling you? Use the space provided on pages 2 of your 'Write On It' to jot down your ideas. Share your ideas with your Beta Reader. Change your ideas as you go. Then use page 3 to help you organise your ideas into a paragraph. Do this for each source you use.

6th Evaluate and reflect.

Write a concluding paragraph on page 3 of your 'Write On It' in which you evaluate and reflect on what you have learned. Use the guide questions below.

Explain if it was what you expected. What further questions did your inquiry generate? What would you like to learn more about? What would you do different next time and why? How has this learning impacted on your understanding of our world?

Communicate.

Complete your text task using your notes to communicate your ideas, knowledge and feelings.

4th Plan your design?

Use this space to sketch your design ideas. Include labels of materials used, call outs to indicate joins in material and **how** you will join them. Create a list of numbered steps down one side to show how you or someone else can manufacture your item. Finally, have your teacher or Beta Reader conference your design.

5th Manufacture your design.

6th Evaluate and reflect.

Draft a report of your design project on page 14 - 16 of your 'Write On It'. Use the following questions to guide your sentence construction:

1. What did you plan to do and why?
2. What did you already know? How did you do your research?
3. Explain the investigation you did on the materials, including your safety considerations.
4. During the construction – what went well, and what would you do differently?
5. How has this learning impacted on your understanding of our world?

7th

Communicate.

Complete your text task using your notes to communicate your ideas, knowledge and feelings.