



Highsted Knowledge Organiser

Design and Technology Year 8 Term 5

What I need to know

To understand how to explore a context.

To understand and show evidence of a range of research methods.

Key Vocabulary:

Context

Primary and secondary research methods.

Risks identified.

Journey to school.

Exploring a context:

You will make a personal diary of your own journey to school. This should cover the whole journey, from leaving home to arriving in the first classroom of the school day. You will then consider the positive and negative aspects of your journey to school.

Once you are in groups you will consider the good and bad factors and identify five to seven main risks and dangers.

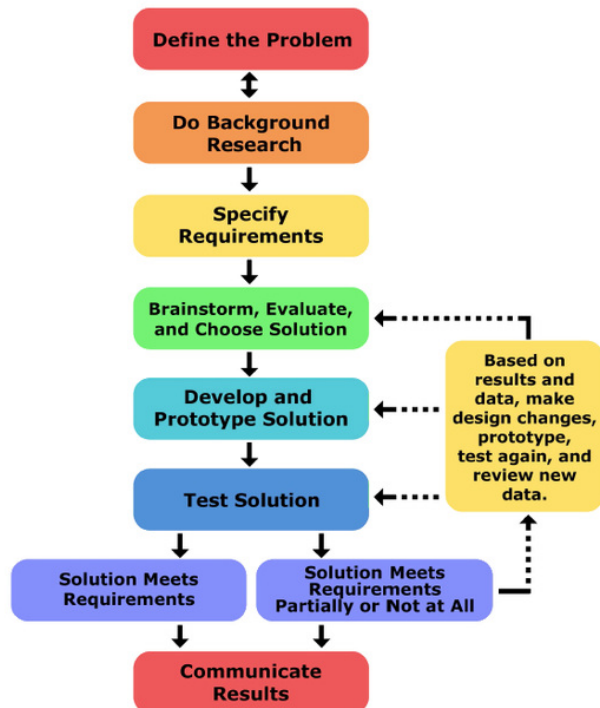
You will research your group's key risks or dangers. Research should draw on as full a range of secondary sources as possible. As a minimum, the frequency, scale and impact of the events should be covered.

You will also create a survey which you will hand out to other students.

Use research from a range of appropriate sources to develop innovative design decisions.

Revise and adapt design briefs and solutions in the light of evaluation and new evidence.

Engineering Design Process



Challenge question:

Think about how you could make your product more sustainable.

Suggested reading:

BBC bitesize,

Technology student.com



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Design and Technology Year 8 Term 6

What I need to know:

The purpose of a prototype.

How to communicate your ideas/job roles as a group.

How to test and analyse your prototype.

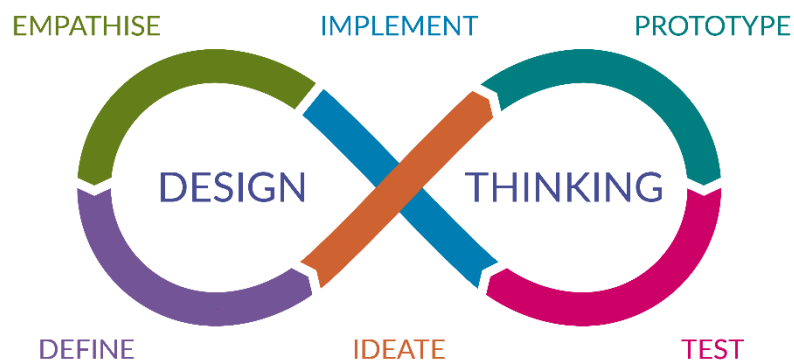
Key Vocabulary:

Prototype.

Task analysis.

Evaluate.

Journey to school.



Prototype

Using cardboard, you will create and make a prototype of your design idea. You will need to plan this and show strong practical skills & techniques.

Tasks and analysis:

Next you will need to evaluate your own ideas. Identify, apply and explain how technical skills have been used to enhance functions and outcomes.

Identify, apply and explain how technical skills have been used to enhance functions and outcomes

You will be able to show your technical knowledge and how you have been able to make things work.

Make a relevant contribution to a presentation which effectively explains, analyses and justifies the project process and outcomes.

Challenge question:

Think about how you could make your product more sustainable.

Suggested reading:

BBC bitesize,

Technology student.com