

STEPS 4 TECHNOLOGY

STEPS – is an Information model designed with an easy to use mnemonic that appeals to children.

If you can't put it on one piece of paper it will probably be too hard to teach easily, so each of our handouts are designed to get the point across in one page...



About this Information Process Model

This model was developed from a New Zealand Information Literacy meeting in 2004, to meet the needs of seeing learning and information literacy as a journey.. hence STEPS. It has been trialled across a range of curriculum areas (i.e. there is a version for science/ technology/art etc) and age groups (version for junior classes) and has a range of supporting resources to aid in implementation.

IMPORTANT

Please download/ print and think through the philosophy behind this model so that you are familiar with the concepts.

<http://www.in2edu.com/steps.html>

Technology Information Process

*Reflecting &
Reviewing*

S SET SCENE

What need or opportunity have you discovered? What solutions already exist? What do I know? What do I need to find out? Read background information. Wonder! Fat Questions!

T TARGET

Design Experiment /Plan/ and find Sources of information. Where and how will I find answers? What are my Keywords? How will I collect my data? What skills or knowledge will help develop a solution?

E EXPLORE

Experiment. What information do I need? Sorting, analysing, organising the information to relate results to solution. Keep a log book of any “fair tests”, performance measures and results. Be the great Explorer.

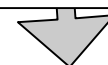
P PRESENT

Communicate how well your solution worked. Did it satisfy the need? Be Creative. Share information, tell the story.

S SO WHAT

How well did you succeed with your design? What will I do now? PMI, What action or service could happen next? How could it be marketed? What did you learn about STEPS?

In an Technology Investigator



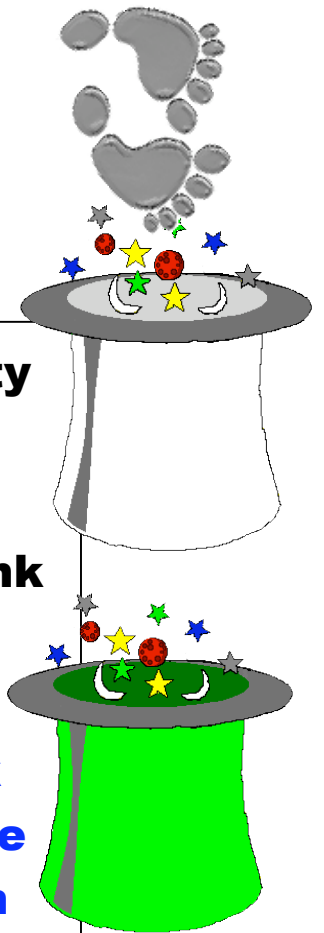
SET SCENE

So What? What is the need or opportunity you have discovered? What solutions already exist?

Green Hat all the new ideas you can think of. Choose an idea to develop. Why did you choose this idea?

Read background information: check out a simple encyclopaedia article, make a search on the internet using your main keyword for your topic and words like “introduction”, “kids”, “facts” to help you get simpler information.

Have a sense of Wonder! Use Blooms higher level for thinking question starters. Fat Questions! Create questions that make connections and comparisons, and will help you to see patterns.



STEPS: Technology Information Process

Set Scene, Target, Explore, Present, So What

TARGET



Design Experiment/ Plan and find sources of information. Where and how will you find your answers? Underline the keywords in your questions. Use a thesaurus to get more keywords. In the introduction information you read were there any other words you could use as keywords?

What type of source will be the most reliable and easy to access for you? Check out the posters on first-hand and second-hand sources and write down some sources that will be best to use.

PLAN – what you will be doing and how long you think it will take. How will I collect my data?

What skills or knowledge will you need to develop your solution? Where will you get them? (See sources)

As you have read you may decide it would be a good idea to re-write some questions or re-design your tests or solution to show better thinking.



STEPS: Technology Information Process

Set Scene, Target, Explore, Present, So What

EXPLORE

Experiment and develop your solution.

You may start with a drawing or a scale model. Keep a log book of everything you do, including any fair tests, performance measures and results.

You are an investigator... read your questions and use keywords to find the information you require. Use a number of sources to find the truth or best answers. Find the best facts.

Record main ideas, take notes and look for ways to express your own thoughts and opinions.

Try your solution on the people it was developed for.

You may decide to collect ideas and put them into sets or organise at the same time or you may collect them all and organise them later. Think about how you will be presenting.



Don't worry about trying to make it fancy or have great effects just yet!

STEPS: Technology Information Process

Set Scene, Target, Explore, Present, So What

PRESENT



Communicate how well your solution worked. Did it satisfy the need? Tell the story of what you have learned. You should be an expert now. How will you hook people into your topic, how will you keep it interesting? Is it clear and easily read or heard?

Use balance, colour, variety but remember that most importantly you are communicating, sharing information. Do you have a beginning (introduction), middle and end?

Highlight your original thinking and creative ideas.

Have you targeted your presentation to your audience?

Check: Does your presentation refer to the original solution and presents your thoughts, conclusions and recommendations? Checked rubric?

STEPS: Technology Information Process

Set Scene, Target, Explore, Present, So What

SO WHAT?

Now that you have presented, what are your recommendations or developments for the future? How has this changed the way you think about the world? What do you think you should do next?

Could the solution be marketed? What would be needed?

How well did your presentation go? Did people understand what you were saying? What feedback did you get?

Check off your final assessment rubric.

ALSO: throughout the process of STEPS what did you learn about yourself? What did you learn about learning? What changes did you make as you went, that show you were reviewing/reflecting as you went? These thoughts may have been written in your learning journal.



STEPS: Technology Information Process

Set Scene, Target, Explore, Present, So What