

Lesson 3: Puzzling Problems



Overview

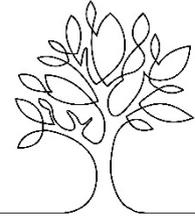
By the end of the lesson, pupils should be able to:

- Understand what a problem is.
- Understand how to solve a problem.
- Use problem solving processes or methods.

Class Length: 40 minutes

Year Groups: All ages

Resources: Computer, projector, printed handouts, pencils.



Lesson Structure

1. What is a problem?

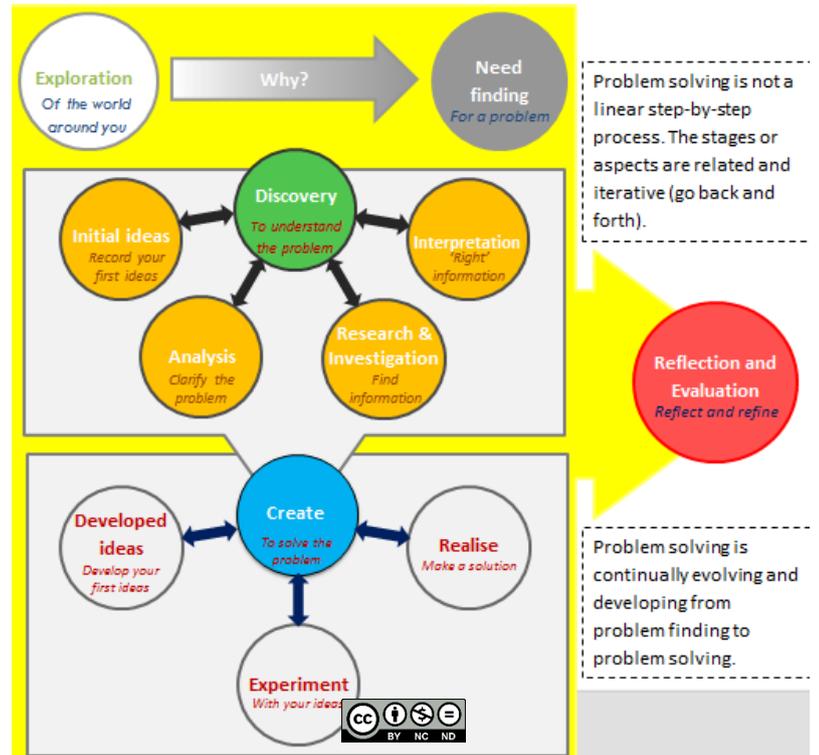
- Define what a problem is.

2. How to solve a problem.

- Explore problem solving methods.

3. Multiple stages:

- *Finding a problem (unless it is given to you)*
- *Understanding the problem*
- *Solving the problem*



Lesson Activities

Activity 1

To find a problem (or when given a problem) you must:

- Explore the world around you
- Find issues
- Find what is needed to make life better
- Define the problem
- Reflect and evaluate

Activity 2

To help you understand the problem:

- Capture your first ideas or thoughts
- Clarify the problem
- Find out information and key facts
- Select suitable information
- Reflect and evaluate

Activity 3

To create a solution to the problem:

- Develop ideas further
- Experiment and test your ideas
- Make a possible solution
- Reflect and Evaluate

Lesson Notes

