



Professional Development | An tSeirbhís um Fhorbairt
Service for Teachers | Ghairmiúí do Mhúinteoirí



An Roinn Oideachais
Department of Education

National Workshop 1

May 2022



Computational Thinking – Session 3

What is Computational Thinking?

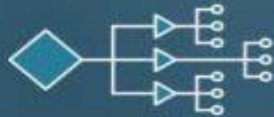
- Problem Solving Methods: for a 'Computer'
- Help

- Several Models: eg 4 Concepts / Pillars:
 - *Decomposition*
 - *Pattern Recognition*
 - *Abstraction*
 - *Algorithm Formation*

- *Different subjects ... even English Literature*
- *LC*

Computational Thinking

Decomposing



Abstraction



Pattern recognition



Algorithms



Skyscrapers

Develop a winning strategy
for the skyscraper problem.



Computational Thinking

- How to Subtract
- London Underground
- Monty Hall Problem
- Sisters?

Computational Thinking

Decomposing



Abstraction



Pattern recognition



Algorithms



Cartoons



Computational Thinking – How did you do it?

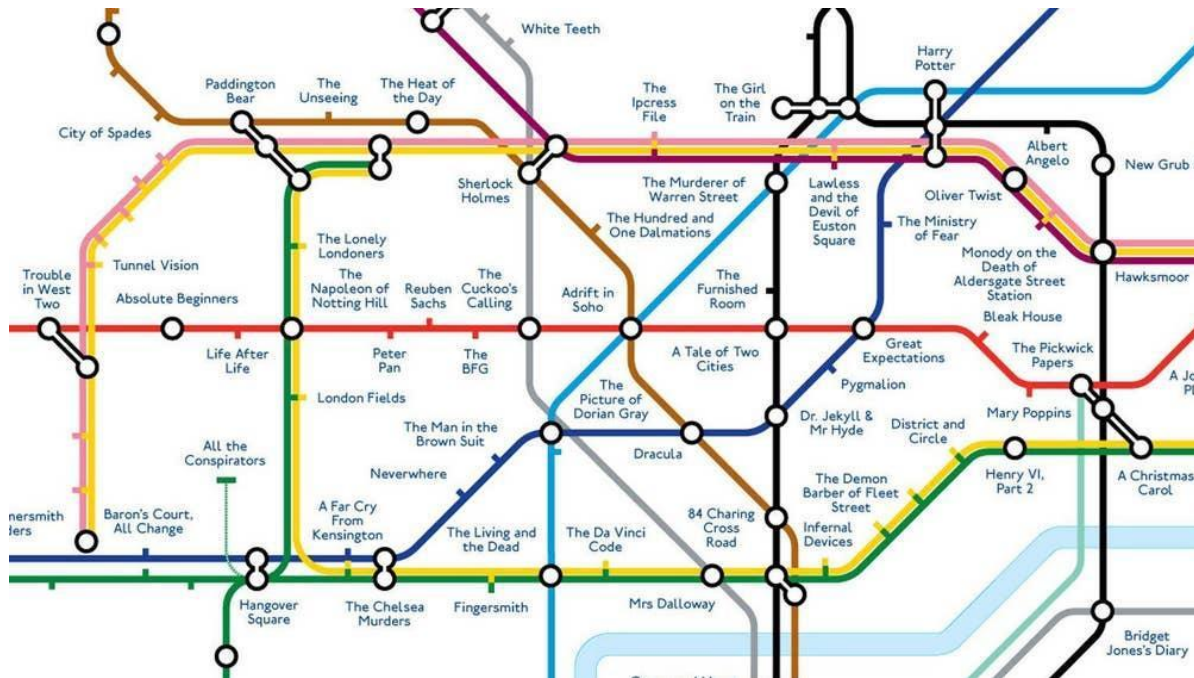
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Computational Thinking

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1. Modern Primary School way.
2. Old Primary school way.
3. Shop Assistant.
4. Dart player.

The Tube



How is abstraction used? – Menti **8240 9970**

Looking at the Monty Hall Problem

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CT – Activity 2

Who has more sisters, boys or girls?





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