

## Subject Concepts

Strategies for making meaning out of new material



**Mental models of the 'big idea'**

### Organise and Describe:

Connections between items

- Sorting Exercises
- Creating Hierarchies
- Concept Maps

### Sequence:

Chronological and Causal Connections

- Creating Timelines
- Building Life Cycles
- Connecting Causes

### Compare:

Comparative Connections

- Comparing Two Things
- Ranking items
- Connecting Concepts

Primary / Secondary

## Writing and Language Concepts

Techniques for exploring writing concepts



**Thinking about the writing process**

### Word Level:

- Morphology
- Prefixes and Suffixes
- Segmenting and Blending

### Sentence Level:

- Joining Sentences
- Expanding Sentences
- Making Grammatical Decisions

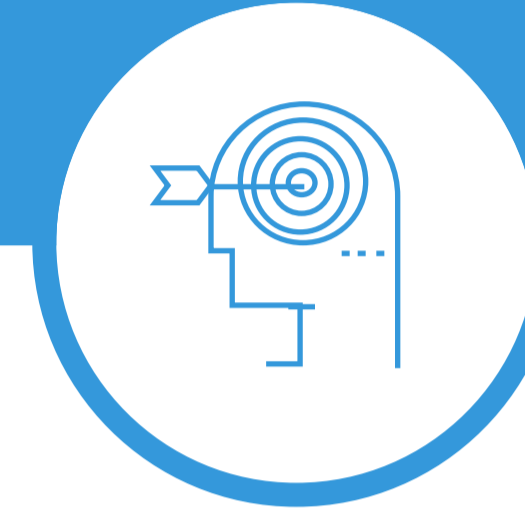
### Text Level:

- Planning Ideas for better:
  - Stories
  - Reports
  - Recounts

Mostly Primary

## Study Skills

Cross-curricula skills that are critical for academic success



**Strategies for planning and organising work**

### Planning:

- Creating robust writing plans

### Revising:

- Creative retrieval practice for better memory

### Analysis:

- Breaking topics down into key points

### Content Structures:

- Summarising non-fiction texts into multi-level summaries

Mostly Secondary

## Maths Concepts

Techniques for making number concepts less abstract



**Using concrete objects to visualise number concepts**

- Place Value
- Order of Operations
- Fraction Walls
- Bar Modelling
- Counting Sticks
- Cuisenaire Methods
- Ratios

Mostly Primary

## Computing Concepts

Supporting computational thinking



**Developing a computing frame of mind**

### Abstraction:

- Removing things you don't need

### Decomposition:

- Breaking things down into smaller parts

### Patterns:

- Using patterns to solve problems

### Algorithms:

- Creating instructions for a particular task

### Logic:

- Explaining why something happens.

Primary / Secondary