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### Structure of a Textbook





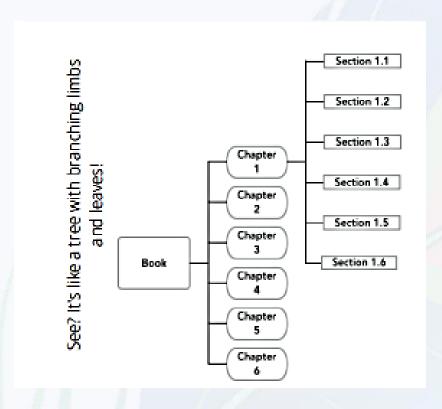
- Content divided into a tree structure
- Description of each element varies

Example of typical book structures

 $Book \Longrightarrow Chapter \Longrightarrow Section$   $Book \Longrightarrow Chapter \Longrightarrow Section \Longrightarrow Subsection$   $Book \Longrightarrow Unit \Longrightarrow Chapter \Longrightarrow Section \Longrightarrow Sub-section$ 

#### Structural Elements





Three fundamental elements of a tree structure:

- 1. Openers
- 2. Closers
- 3. Integrated Pedagogical Devices.

#### **Openers**



- Structural elements that precede the main content
  - Help lead the learning journey

#### Typical openers:

- A banner image
- 2. Learning objectives
- 3. Introduction
- 4. Focus questions
- 5. Chapter summary

#### Closers



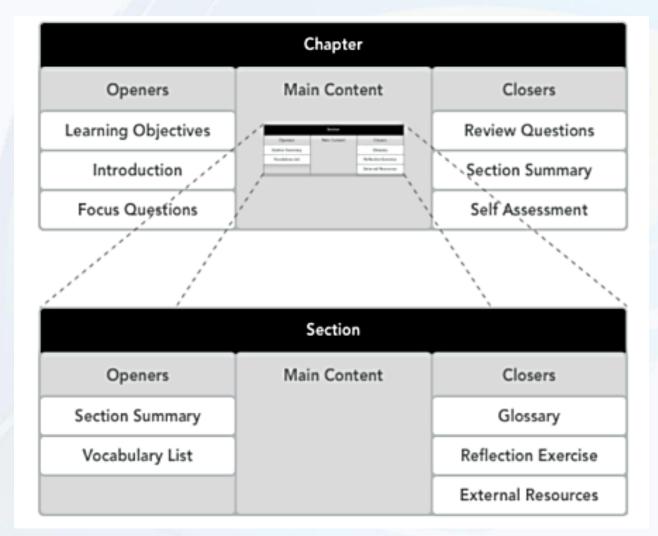
- Structural elements that succeed main content
  - Help learners reinforce or review their learning

#### Typical closers:

- 1. Review problems
- 2. Chapter summary
- 3. Links to external resources
- 4. Citations

#### Examples





#### Integrated Pedagogical Devices



- Strategies and elements that assist in learning
  - Differentiate elements, separate them from main content
  - Typically designed differently to appear consistent across the book

Example: each Chapter in a mathematics textbook may utilize the following pedagogical devices:

- 1. A "biography": Highlights the biography and accomplishments of a famous mathematician
- 2. A "case study": Illustrates the concepts by describing a real-world application
- 3. Vocabulary words, Geometric figures, Graphs, charts



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