

Information Detectives: Mastering the Art of Extraction (EN8INF-III-4)

Learning Competency: EN8INF-III-4 Extract significant information.

Materials Needed

- Variety of Texts (Physical newspaper articles, online memos, email chains, textbook excerpts, or fictional text with dense paragraphs)
- Highlighters or colored pencils (minimum 3 colors)
- Timer or stopwatch
- Notebooks or large sheets of paper
- Digital device for accessing online resources (optional)

Learning Objectives (KSA)

By the end of this lesson, learners will be able to:

1. **Knowledge (K):** Define "significant information" and identify the primary differences between skimming, scanning, and deep reading.
2. **Skill (S):** Accurately apply efficient reading techniques (skimming and scanning) to distinguish central ideas from supporting details in unfamiliar texts.
3. **Attitude (A):** Appreciate the value of efficient information extraction for making rapid, well-informed decisions in academic and professional contexts.

Success Criteria

Learners will know they are successful when they can:

- Filter a complex text down to 3-5 essential points within a specified time limit.
- Write a summary of the extracted information that is no more than three sentences long and accurately reflects the text's core message.

I. Introduction (10 minutes)

A. Hook: The Information Firehose

Activity: Begin by presenting a scenario:

Imagine you have been assigned to read an entire 500-page book on a complex topic (like the history of AI or climate change), but you only have 30 minutes to prepare for a pop quiz. If you can't read every single word, how do you figure out the MOST important things to study?

Discussion Prompt (Think-Pair-Share): What strategies do you currently use when you are overwhelmed with reading material (e.g., long email chains, dense articles)?

B. Stating Objectives

We are going to become Information Detectives. Our goal today is to master the skill of finding the gold (the significant information) without sifting through all the dirt (the minor details). This skill saves time, reduces stress, and makes you a much smarter reader.

II. Body: The EFDT Model for Extraction

A. EXPLORE: Understanding the Need (15 minutes)

Goal: Activate prior knowledge and establish why extraction is crucial.

I Do: The Noise Demonstration

The educator presents a deliberately dense or confusing text (e.g., a lengthy email with many unnecessary greetings, attachments, and footnotes). The educator reads the text aloud, using a red pen or highlighter to cross out or mentally filter everything that is NOT essential for answering the main question (e.g., "What is the deadline?").

- **Modeling:** Verbally explain, "This detail is interesting, but it doesn't change the deadline, so I'm filing it away."

We Do: Defining Significance

Learners work together (or with the educator in a homeschool setting) to create a definition of "Significant Information." Guide the discussion to include the "Five W's and H" (Who, What, Where, When, Why, How).

Formative Check: Ask learners to list three pieces of information that are almost never significant (e.g., elaborate adjectives, repetitive clauses, background history not related to the main point).

B. FIRM-UP: Mastering the Tools (20 minutes)

Goal: Direct instruction and guided practice on core extraction techniques.

I Do: Direct Instruction and Tool Demonstration

Introduce the three primary reading tools:

1. **Skimming:** Reading quickly to grasp the general idea (looking at headings, first/last sentences of paragraphs).
2. **Scanning:** Looking for specific keywords, numbers, or names (like a computer search function).
3. **Summarizing:** Condensing the extracted significant information into a concise statement.

Modeling: The educator models the difference between skimming and scanning using two different short paragraphs. For Paragraph 1 (Skimming), the educator quickly reads the first and last line and states the main idea. For Paragraph 2 (Scanning), the educator is timed (30 seconds) to find a specific keyword (e.g., a date or percentage).

We Do: Guided Extraction Practice

Provide a short article (4-5 paragraphs) on a neutral topic (e.g., facts about marine biology or space

exploration).

- **Step 1 (Skim):** Learners skim the article, using one colored highlighter (e.g., blue) only on topic sentences. (3-minute time limit).
- **Step 2 (Scan):** The educator provides a specific question (e.g., "What year was X discovered?"). Learners scan the text using a second colored highlighter (e.g., yellow) for the answer. (1-minute time limit).
- **Step 3 (Consolidate):** Based on the highlighted text, learners collectively draft a one-sentence thesis statement for the article.

C. DEEPEN: Independent Application Challenge (25 minutes)

Goal: Learners apply extraction techniques to slightly more complex, self-selected texts.

You Do: The Research Brief

Learners select an unfamiliar, longer piece of text (500-700 words), choosing from provided options (ensuring variety of difficulty for differentiation).

Instructions:

1. Set the timer for 10 minutes.
2. Read the text, prioritizing skimming and scanning.
3. Identify and highlight 3-5 truly significant pieces of information. Use a third color (e.g., green) to mark these core points.
4. Write a concise Research Brief (a short paragraph or bulleted list) summarizing the extracted significant information.

Feedback and Reflection: Learners exchange their extracted key points (or present them to the educator). Compare the identified significant information. Did everyone highlight the same things? Discuss why some details were important to one person but not another (relevance to purpose).

D. TRANSFER: Real-World Filter (20 minutes)

Goal: Apply the skill to practical, real-life documents and articulate the process.

You Do: Practical Extraction Task

Provide a text that requires immediate, actionable extraction (e.g., a complex instruction manual for assembling furniture, a detailed set of rules for a competition, or a lengthy legal/privacy policy abstract).

Task: Extract all information needed to successfully complete the task or follow the rules. (The learner is essentially creating a 'cheat sheet' from the dense text.)

Summative Assessment: Teaching the Skill

Learners create a "How-To" guide or infographic titled: "Four Steps to Extract Significant Information." This output must clearly explain the process (Skim, Scan, Filter, Summarize) using plain language and provide an example of when each technique would be necessary.

III. Conclusion (10 minutes)

A. Review and Recap

Review the KSA objectives. Ask the learners:

- What is the difference between reading for pleasure and reading for extraction? (K)
- If you had to summarize a 10-page report for your boss in one minute, which two reading tools would you prioritize? (S)
- How can this skill help you outside of reading textbooks? (A)

B. Final Reflection

Ask learners to quickly summarize the entire lesson in a single, significant sentence. This serves as the final check for comprehension.

C. Next Steps/Extension

Encourage learners to practice this skill when reading emails or news articles this week. Challenge them to summarize an entire major news story into a 30-second explanation for a family member.

Differentiation and Adaptability

Scaffolding (For learners needing support)

- **Text Chunking:** Break down the Deeper practice text into smaller, paragraph-by-paragraph segments for analysis rather than giving the whole document at once.
- **Keyword Pre-load:** Before the Deepen section, provide a list of 5 necessary keywords the learner should be looking for.
- **Simplified Modeling:** Use highly structured texts (like recipes or bulleted lists) for the initial 'We Do' practice.

Extension (For advanced learners)

- **Complex Source Analysis:** Assign texts with intentional complexity or ambiguity (e.g., academic journals, technical specifications, or conflicting news reports).
- **Application to Presentation:** Instead of just writing a brief, the advanced learner must prepare a 2-minute oral presentation based *only* on the significant information extracted, requiring synthesis and critique.
- **Bias Detection:** Challenge the learner to extract the significant information while also identifying any underlying bias or opinion embedded in the text.

Context Adaptability

- **Homeschool/One-on-One:** The 'We Do' activities become deep, Socratic dialogue sessions where the educator guides the filtering process step-by-step. The Transfer task can use personal documents like insurance policies or instructions for a new hobby kit.
- **Classroom:** The 'We Do' and 'Deepen' activities utilize competitive group work (e.g., the group that extracts the most accurate 3-sentence summary in the fastest time wins).
- **Training/Workplace:** The texts focus strictly on memos, regulatory documents, or departmental procedure changes, making the transfer immediate and relevant to job performance.