CLIL Lesson Plan: Scientific Review

Teacher: Dr. B. Spoorthi

Grade Level: B.Tech 1st Year – CSE/BT/MME

Course: English for Technical Communication

Subject: Scientific Review

Duration: 120 minutes

Objectives:

Content Objective:

- By the end of this lesson, students will understand the process of critically reviewing scientific content and summarizing key findings.

Language Objective:

- By the end of this lesson, students will be able to analyze and evaluate a scientific text, structuring their thoughts in a clear and concise review.

Materials:

- Library access
- Scientific books (without diagrams)
- Handouts with guidelines for writing a scientific review
- Notebooks or digital devices for note-taking

Preparation:

- Instruct students to visit the library and select a scientific book of their choice.
- Ask students to choose a page from the book that does not contain diagrams.
- Provide a template outlining key elements of a scientific review (summary, analysis, critique).
- Arrange classroom seating to facilitate discussion and writing activities.

Procedure:

1. Book Selection & Reading (30 minutes)

- Students visit the library and select a scientific book.
- Each student chooses a single page from the book that does not contain diagrams.
- Encourage students to read and take notes on key ideas, arguments, and technical aspects.

2. Discussion & Brainstorming (20 minutes)

- Begin with a discussion on how scientific reviews differ from general book reviews.
- Ask students to share their initial thoughts about their chosen text.
- Provide guidelines on how to structure a scientific review.

3. Writing the Scientific Review (50 minutes)

- Students write their scientific review in class following this structure:
    - **Introduction:** Title, author, and subject area of the book.
    - **Summary:** Key concepts and findings from the selected page.
    - **Analysis:** Evaluation of the clarity, credibility, and impact of the information.
    - **Personal Reflection:** How the text contributes to their field of study.
    - **Conclusion:** Final thoughts and recommendations.

4. Peer Review & Discussion (15 minutes)

- Students exchange their reviews with a peer for feedback.
- Peers provide constructive feedback on clarity, coherence, and depth of analysis.
- Groups discuss the key insights gained from the exercise.

Conclusion (5 minutes)

- Summarize key takeaways from the session.
- Encourage students to refine their reviews based on feedback.
- Thank students for their participation.

Assessment:

- Evaluation of students' scientific reviews based on structure, clarity, and depth of analysis.
- Observation of participation in discussion and peer review.
- Quality of feedback provided during peer evaluation.

Homework/Extension:

- Ask students to revise and finalize their scientific reviews for submission.
- Encourage students to explore more scientific texts and practice writing reviews.

Note: This CLIL lesson plan integrates scientific reading comprehension with analytical writing, helping engineering students enhance their ability to critique and communicate scientific ideas effectively.