



Worksheet #4: TEACHER INFO

“Guiding Students in Creating Visual Study Aids with GenAI”

Overview

This guide provides teachers with a structured approach to help students use GenAI tools to transform their notes and course content into visual aids like diagrams, illustrations, and posters. Visual study aids can improve understanding, retention, and engagement, especially for complex topics. Follow these steps to support students in creating effective visual aids.

Step 1: Introduce the Purpose of Visual Study Aids

1. Explain the Assignment’s Objective:

- Share with students that this assignment will help them create visual aids to represent complex ideas from their notes. Explain that visual study aids make studying more interactive and can help them remember information more effectively.

2. Discuss the Benefits of Visualizing Information:

- Explain how visual aids help make connections between concepts, simplify complex topics, and support different learning styles. Emphasize that this process encourages students to think critically about the material as they decide how to represent it visually.
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Step 2: Guide Students in Gathering Course Materials

1. Encourage Students to Collect All Relevant Materials:

- Have students gather their lecture notes, Google Slides, and any other handouts or supplementary materials. Let them know that having complete and organized content will help them create meaningful visuals.

2. Provide a Checklist of Essential Content:

- Offer a checklist of items to include in their visual aids. Suggested checklist items:
 - Main concepts and themes
 - Key terms and vocabulary
 - Important processes or diagrams
 - Core examples or illustrations from class
 - Any discussion questions or key topics covered in lectures

Step 3: Walk Students Through Using AI Tools for Creating Visuals

1. Help Students Choose an AI Tool:

- Recommend AI tools that are user-friendly for visual creation, such as DALL-E for generating illustrations, Canva for design templates and posters, or Lucidchart for diagrams and flowcharts, Miro, draw.io, coggle, adobe express, AutoDraw Google.
- Demonstrate one tool if possible



2. Guide Students in Inputting Information into the Tool:

- Explain how to use keywords, concepts, or prompts related to their study material to generate visuals that represent those ideas. For example:
 - **Illustrations** for vocabulary or concepts.
 - **Diagrams** for processes or relationships.
 - **Posters** to summarize main ideas.
- Encourage students to experiment with different prompts or templates to find visuals that best fit their content.

3. Encourage Reflection:

- Have students review the visuals generated by AI and reflect on whether the visuals accurately represent their content. Prompt them to think about any adjustments needed for clarity.

Step 4: Help Students Review and Customize Visuals

1. Review for Accuracy and Relevance:

- Guide students to check each visual for accuracy and relevance to the material. Encourage them to add labels, captions, or short explanations to ensure the visuals are informative.

2. Organize Visuals by Topic or Section:

- Encourage students to group their visuals by topic or section, mirroring the structure of their course content. This will help them use the visuals effectively for studying.



3. Reflection Questions:

- Prompt students to think about how these visuals help clarify the material. Sample questions:
 - How do the visuals make the content easier to understand?
 - Which type of visual aid was most helpful for you?
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Step 5: Using Visual Aids for Review and Study

1. Create a Study Display or Poster:

- Encourage students to compile their visuals into a single poster or presentation for quick reference. This can be a digital document or a printed poster for their study space.

2. Develop Practice Questions from Visuals:

- Guide students to create a few practice questions based on their visuals. This will help them engage more actively with the material and reinforce understanding.

3. Reflection and Feedback:

- At the end of the assignment, ask students to reflect on how the process of creating visual aids helped them. Suggested reflection questions:
 - How did creating visual aids make studying more effective?
 - What would you change next time when creating visual study aids?



This guide provides you as teachers with the structure to help your students create meaningful, AI-powered visual aids that make studying more engaging and effective.