

Using ChatGPT to Create H5P Learning Objects

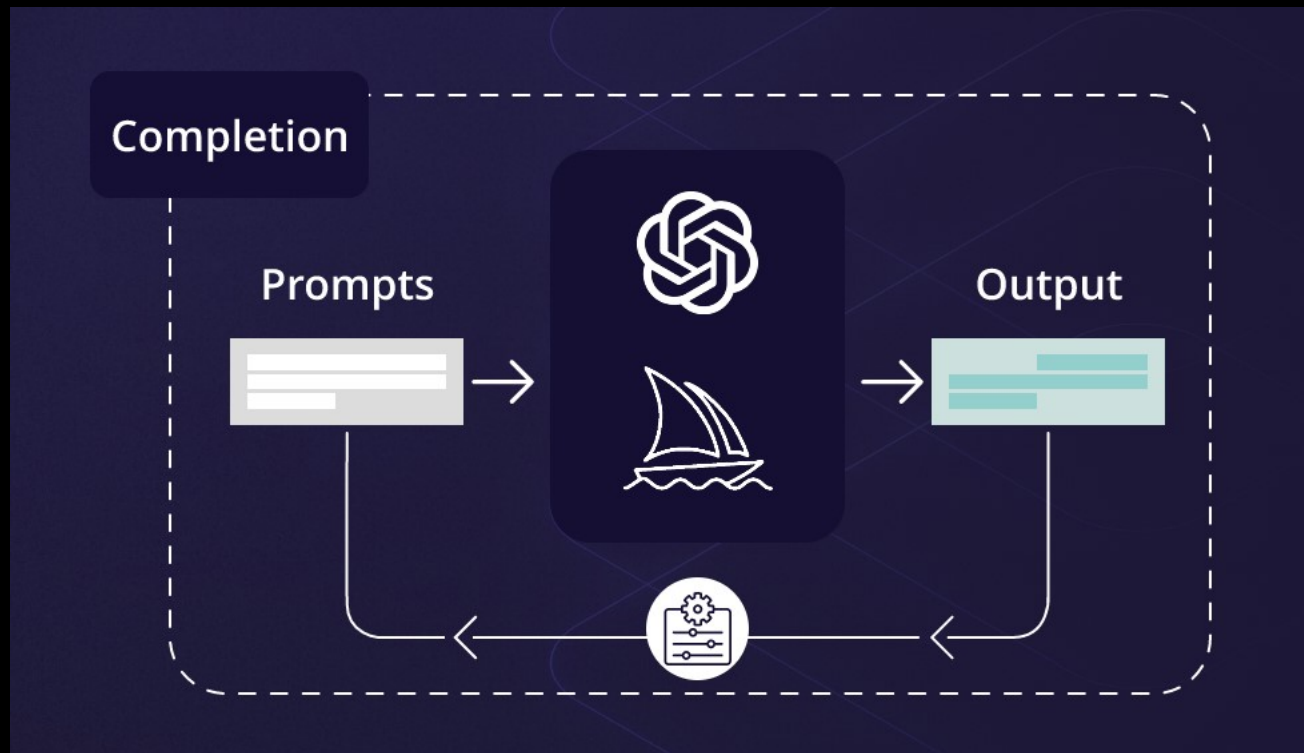


E-Learning, Innovation,
and Teaching Excellence
MONTGOMERY COLLEGE

What is ChatGPT?

ChatGPT is an app built by OpenAI. The GPT language models can answer your questions, write copy, draft emails, hold a conversation, explain code in different programming languages, translate natural language to code, and more—or at least try to—all based on the natural language prompts you feed it.

Prompt Engineering



A prompt guides the model to generate useful output.

Not satisfied with the output? Add more prompts...

Fun Facts

- ChatGPT currently has over **100 million** users
- In just **5 days**, ChatGPT surpassed 1 million users
- openai.com gets approximately **1.8 billion** visits per month
- Over 15% of ChatGPT's users are American

(The Guardian/Similarweb)

Fun Facts

Online Service	Launch Year	Time Taken to Reach 1 Million Users
ChatGPT	2022	5 days
Instagram***	2010	2.5 months
Spotify	2008	5 months
Dropbox	2008	7 months
Facebook	2004	10 months
Foursquare***	2009	13 months
Twitter	2006	2 years
Airbnb**	2008	2.5 years
Kickstarter*	2009	2.5 years
Netflix	1999	3.5 years

**ChatGPT is the
fastest-growing application in history!**

Our Current Reality

**JUST A FRACTION OF STUDENTS SAY THEY'RE USING
CHATGPT ... BUT LOTS OF TEACHERS ADMIT TO USING IT**

The Walton Family Foundation

AI Capabilities



Apply



Understand



Remember

Potential Weaknesses

- Accuracy
- Complex Explanations
- Understanding Context

(Rafter, 2023)

AI & Higher Order Learning



Create



Evaluate



Analyze



Serious Risks

- Understanding Context
- Common Sense
- Hidden Bias
- Intentional Creativity
- Complex Explanations
- Intentional Creativity
- Complex Explanations

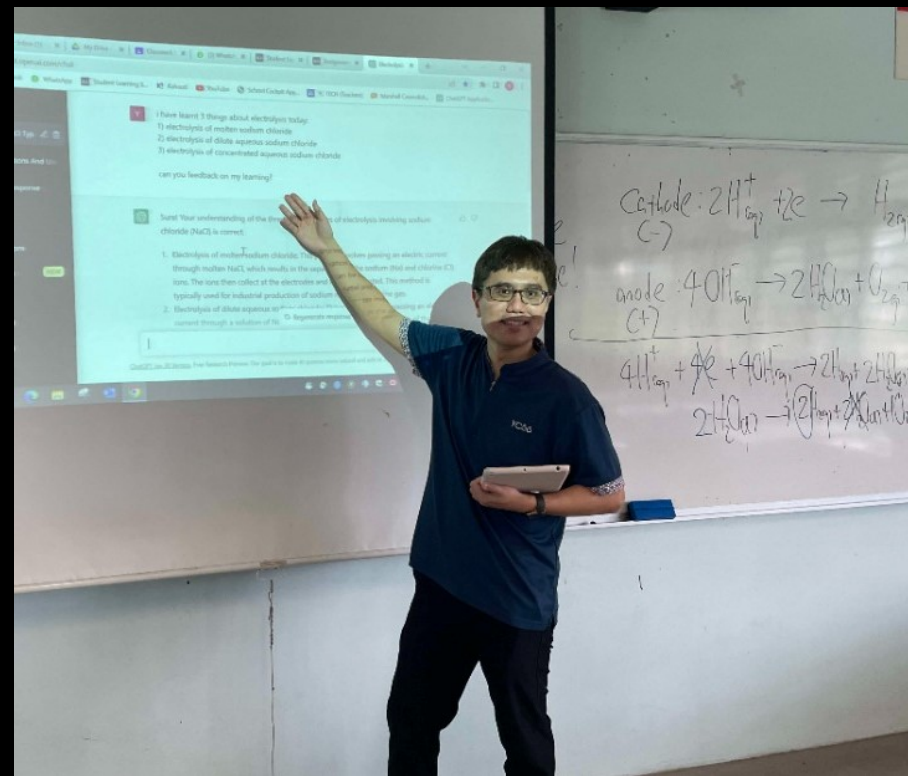
(Rafter, 2023)

How YOU can use ChatGPT to save yourself time

(Dilmegani, 2023)

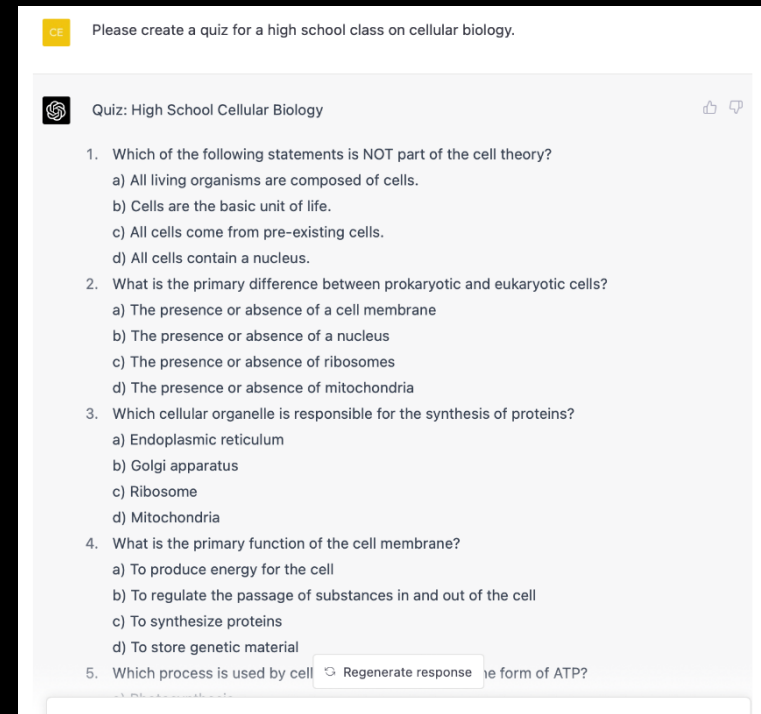
A Thought Partner

- Instant Clarification on Topics
- A Second Set of Eyes: Proofreading and Editing
- A Modern-Day Teaching Assistant



Content Creation

- Generate Ideas
- Generate Lesson Plans
- Generate Activities and Assessments
- Generate Projects that Align with Specific Learning Objectives/Outcomes



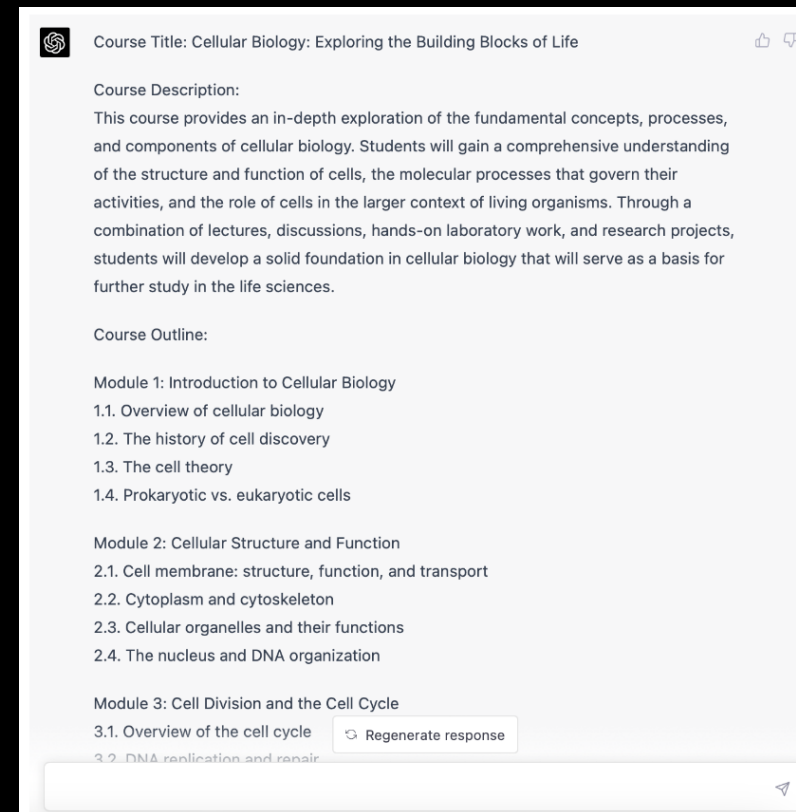
Please create a quiz for a high school class on cellular biology.

Quiz: High School Cellular Biology

1. Which of the following statements is NOT part of the cell theory?
 - a) All living organisms are composed of cells.
 - b) Cells are the basic unit of life.
 - c) All cells come from pre-existing cells.
 - d) All cells contain a nucleus.
2. What is the primary difference between prokaryotic and eukaryotic cells?
 - a) The presence or absence of a cell membrane
 - b) The presence or absence of a nucleus
 - c) The presence or absence of ribosomes
 - d) The presence or absence of mitochondria
3. Which cellular organelle is responsible for the synthesis of proteins?
 - a) Endoplasmic reticulum
 - b) Golgi apparatus
 - c) Ribosome
 - d) Mitochondria
4. What is the primary function of the cell membrane?
 - a) To produce energy for the cell
 - b) To regulate the passage of substances in and out of the cell
 - c) To synthesize proteins
 - d) To store genetic material
5. Which process is used by cell to regenerate response the form of ATP?

Course Development

- Syllabus Generator
- Preparing course objectives and goals
- Topic generation
- Identifying and curating relevant resources and materials for the course



The screenshot displays a user interface for a course development tool. At the top left is a logo, and to its right is the course title: "Course Title: Cellular Biology: Exploring the Building Blocks of Life". There are share and comment icons on the far right. Below the title is the "Course Description:" section, which contains a paragraph of text. Underneath is the "Course Outline:" section, which lists three modules with their respective sub-topics. At the bottom, there is a "Regenerate response" button and a scroll bar.

Course Title: Cellular Biology: Exploring the Building Blocks of Life

Course Description:
This course provides an in-depth exploration of the fundamental concepts, processes, and components of cellular biology. Students will gain a comprehensive understanding of the structure and function of cells, the molecular processes that govern their activities, and the role of cells in the larger context of living organisms. Through a combination of lectures, discussions, hands-on laboratory work, and research projects, students will develop a solid foundation in cellular biology that will serve as a basis for further study in the life sciences.

Course Outline:

Module 1: Introduction to Cellular Biology

- 1.1. Overview of cellular biology
- 1.2. The history of cell discovery
- 1.3. The cell theory
- 1.4. Prokaryotic vs. eukaryotic cells

Module 2: Cellular Structure and Function

- 2.1. Cell membrane: structure, function, and transport
- 2.2. Cytoplasm and cytoskeleton
- 2.3. Cellular organelles and their functions
- 2.4. The nucleus and DNA organization

Module 3: Cell Division and the Cell Cycle

- 3.1. Overview of the cell cycle
- 3.2. DNA replication and repair

Regenerate response

What is a reusable object?

A reusable learning object is any digital resource that can be reused to support learning.

IMAGES OR
PHOTOS

DOCUMENTS

VIDEO

AUDIO CLIPS

ANIMATIONS

WEB
APPLICATIONS

H5P



Collage

Create a collage of multiple images



Column

Column layout for H5P Content



Dialog Cards

Create text-based turning cards



Dictation

Create a dictation with instant feedback



Documentation Tool

Create a form wizard with text export



Drag and Drop

Create drag and drop tasks with images



Drag the Words

Create text-based drag and drop tasks



Essay

Create essay with instant feedback



Fill in the Blanks

Create a task with missing words in a text



Find Multiple Hotspots...

Create many hotspots for users to find



Find the Hotspot

Create image hotspot for users to find



Find the words

Grid word search game



Flashcards

Create stylish and modern flashcards



Guess the Answer

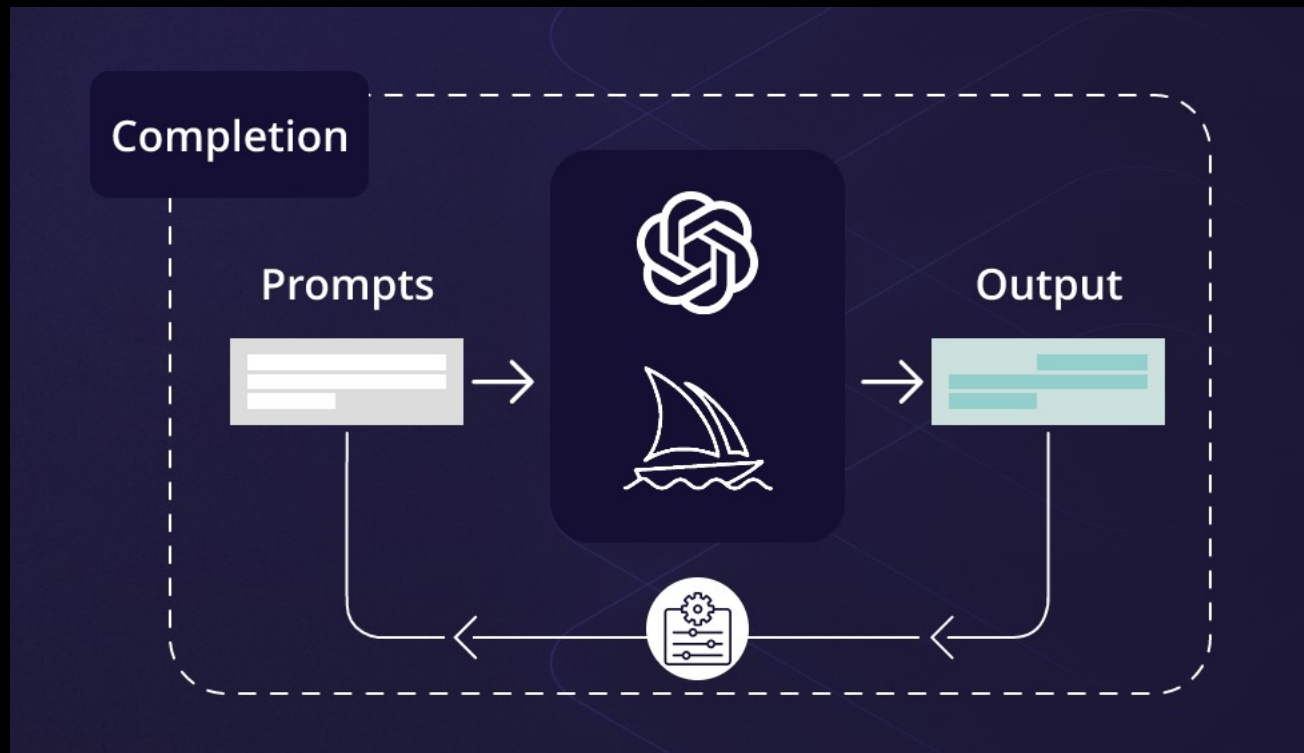
Create an image with a question and answer



Iframe Embedder

Embed from a url or a set of files

Prompt Engineering



A prompt guides the model to generate useful output.

Not satisfied with the output? Add more prompts...

H5P Prompt: Quiz

*Create a multiple choice quiz about **the history of Barcelona**. Create 4 questions with 4 alternatives for each question. Output the questions with the question on the first line, the alternative answers on the following 4 lines. Prefix the correct answer with a *. Suffix the correct answer with ::: and an explanation for why this was the correct answer. Separate each question with an empty line. Do not add any labels, formatting or numbering. Do not assign letters to the alternatives. Follow the described format precisely as I will be pasting the output into another tool that expects this format.*

The Future of H5P and AI