**Study Resources, Assignments, and Rubrics**

| **Tool** | **Purpose** | **Link** |
| --- | --- | --- |
| Magic School AI | Rubric Creation | <https://www.magicschool.ai/> |
| Knowt | Flashcards and practice tests/quizzes | <https://knowt.com/> |

**Multimodal Content Creation Options**

Audio and more!

| **Tool** | **Purpose** | **Link** |
| --- | --- | --- |
| NotebookLM | Podcast conversation between two speakers (Free version is awesome!) | <https://notebooklm.google.com/> |

AI Video Generators

| **Tool** | **Purpose** | **Link** |
| --- | --- | --- |
| HeyGen | AI video generation | <https://www.heygen.com/> |
| Synthesia | AI video avatars and narration | <https://www.synthesia.io/> |
| Canva | Simple AI video creation within Canva | <https://www.canva.com/apps/AAGWcBC3FYQ/ai-video-generator> |

Image Generators

| Tool | Purpose | Link |
| --- | --- | --- |
| Gemini | AI for developing and iterating images;  Fastest and my go-to, but not always the most consistent with style | <https://gemini.google.com/> |
| Copilot | AI image generation using prompt templates | <https://copilot.cloud.microsoft/en-us/prompts/create-an-image-91d86b97-95b3-4c77-9e92-003a6aa6b3b2> |
| Nightcafe | AI for developing artistic images | <https://creator.nightcafe.studio/> |

**AI-Generated Image Prompts:**

Useful prompts for image generator style and technique vocabulary

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## Appendix A: Vocabulary Reference List

| **Art Styles** | | | |
| --- | --- | --- | --- |
| **Traditional Styles** | **Modern/Contemporary** | **Digital/Fantasy** | **Cultural/Regional** |
| Impressionist | Abstract expressionist | Cyberpunk | Anime/manga style |
| Baroque | Pop art | Steampunk | Art Nouveau |
| Gothic | Minimalist | Vaporwave | Art deco |
| Renaissance | Surrealist | Pixel art | Japanese woodblock |
| Neoclassical | Cubist | Synthwave | Aboriginal dot painting |
| Romanticism | Dadaist | Retrofuturism | Islamic geometric |
| Realism | Constructivist | Dieselpunk | Celtic illuminated |
| Photorealistic | Street art | Biopunk | Egyptian hieroglyphic |
| **Medium/Techniques** | | | |
| **Traditional Media** | **Digital Media** | **Mixed/Experimental** | **Print Techniques** |
| Oil painting | Digital painting | Mixed media | Linocut print |
| Watercolor | 3D render | Collage | Etching |
| Acrylic painting | Vector art | Photomontage | Screenprint |
| Pencil sketch | Pixel art | Decoupage | Lithograph |
| Charcoal drawing | Matte painting | Assemblage | Woodcut |
| Ink wash | Concept art | Found object art | Engraving |
| Gouache | CGI render | Texture mapping | Risograph |
| Pastels | Photomanipulation | Digital collage | Block print |
| **Lighting Options** | | | |
| **Natural Lighting** | **Artificial Lighting** | **Dramatic Lighting** | **Atmospheric Effects** |
| Golden hour | Neon lighting | Chiaroscuro | Volumetric lighting |
| Natural sunlight | Studio lighting | Rim lighting | God rays |
| Moonlight | Candlelit | Dramatic shadows | Fog/mist |
| Overcast | Fluorescent | Backlighting | Lens flares |
| Dawn/dusk | LED strips | Side lighting | Light beams |
| Sunset | Spotlight | Under lighting | Atmospheric haze |
| Blue hour | Stage lighting | Top lighting | Particle effects |
| Twilight | Street lamps | Cross lighting | Smoke effects |
| **Color Palettes** | | | |
| **Temperature Based** | **Saturation Based** | **Themed Palettes** | **Technical Palettes** |
| Warm tones | Vibrant/saturated | Neon colors | Monochromatic |
| Cool tones | Muted/desaturated | Earth tones | Complementary |
| Neutral tones | High contrast | Pastel colors | Analogous |
| Fire colors | Low contrast | Jewel tones | Triadic |
| Ice colors | Oversaturated | Autumn colors | Tetradic |
| Sunset palette | Washed out | Spring colors | Split-complementary |
| Ocean palette | Faded | Retro colors | Gradient |
| Forest palette | Dusty | Vintage colors | Duotone |
| **Quality Modifiers** | | | |
| **Resolution/Detail** | **Artistic Quality** | **Platform Recognition** | **Technical Quality** |
| Highly detailed | Award-winning | Trending on ArtStation | Sharp focus |
| 4K resolution | Museum quality | DeviantArt featured | Perfect composition |
| 8K resolution | Gallery worthy | Behance showcase | Professional lighting |
| Ultra-detailed | Masterpiece | Instagram viral | Color grading |
| Intricate details | Fine art | Pinterest popular | Post-processing |
| Hyperrealistic | Artistic excellence | Dribbble shot | HDR quality |
| Photorealistic | Creative mastery | CGSociety featured | Ray tracing |
| Cinematic quality | Visionary art | Concept art world | Unreal Engine |
| **Composition Guidelines** | | | |
| **Perspective** | **Framing** | **Rule Applications** | **Camera Angles** |
| Low angle | Close-up | Rule of thirds | Bird's eye view |
| High angle | Medium shot | Golden ratio | Worm's eye view |
| Eye level | Wide shot | Leading lines | Dutch angle |
| Bird's eye | Extreme close-up | Symmetry | Over the shoulder |
| Worm's eye | Full body | Asymmetry | Point of view |
| Three-quarter | Environmental | Depth of field | Establishing shot |
| Profile | Portrait crop | Negative space | Tracking shot |
| Frontal | Landscape crop | Focal point | Crane shot |

**Administrative Tasks**

* Semester Preparation Checklist: "Create a comprehensive pre-semester checklist covering syllabus updates, LMS setup, assignment preparation, reading orders, technology testing, accessibility compliance, and classroom preparation. Organize by priority and estimated time requirements."
* Committee Meeting Efficiency: "Help me prepare for [type of committee] meetings by creating templates for agenda items, decision-tracking sheets, and action item follow-up. Include strategies for keeping discussions focused and productive."
* Time Management Systems: "Design a weekly schedule template that balances teaching, research, service, and personal time. Include time-blocking strategies, priority systems, and methods for protecting research time while remaining accessible to students."

**Response Emails**

| **Emergency/Serious Circumstances:** |
| --- |
| "Dear [Student Name],  I'm sorry to hear about [situation]. Thank you for communicating with me promptly about how this affects your coursework.  For [assignment name], I can [specific accommodation offered]. Please [required documentation/next steps] by [deadline]. If you will need any further accommodations or information, please do not hesitate to contact me.  I encourage you to also contact the Student Affairs office for additional support during this difficult time.  Best Regards,  Professor [Last Name]" |
| **Student in Crisis:** |
| "Dear [Student Name],  Thank you for trusting me with information about your current situation. I'm concerned about you and want to help however I can within my role as your professor.  For your coursework, I can [specific academic accommodations offered]. Please [required actions/documentation] by [deadline].  More importantly, I strongly encourage you to connect with [specific campus resources: counseling center/dean of students/financial aid] who are trained to provide the support you need. [Include contact information if helpful.]  You don't have to handle this alone. Please keep me updated on how you're doing.  Take care,  Professor [Last Name]" |

| **Referral to Support Services:** |
| --- |
| "Greetings [Student Name],  I appreciate you sharing what's going on with me. While I want to support your academic success, I think you would benefit from connecting with professionals who specialize in [type of support needed].  I recommend reaching out to:   * [Campus resource 1]: [contact information] for [specific type of help] * [Campus resource 2]: [contact information] for [specific type of help]   Please let me know how I can best support you academically during this time. We can discuss [specific accommodations/timeline adjustments] that might be helpful.  Wishing you well,  Professor [Last Name]" |
| **Excused Absence:** |
| "Greetings [Student Name],  Thank you for notifying me about your absence from [class date/time]. I understand that [reason for absence].  Here's what you missed: [brief overview of content covered]. You can [makeup instructions: view recorded lecture/get notes from classmate/review posted materials].  For the [quiz/assignment] you missed, please [specific makeup instructions] by [deadline]. [Any additional requirements or restrictions].  See you in the next class,  Professor [Last Name]" |
| **Unexcused/Pattern of Absences:** |
| "Dear [Student Name],  I'm writing to follow up on your recent absences from [course name]. According to my records, you've missed [number] classes as of [date], including [specific dates if relevant].  As stated in the syllabus, [attendance policy]. These absences may impact your grade because [specific consequences]. Additionally, you've missed [important content/assignments].  I'd like to meet with you during [office hours/scheduled time] to discuss how to get you back on track. Please also consider reaching out to [academic advisor/support services] for additional assistance.  Best regards,  Professor [Last Name]" |
| **Scheduling Office Hours:** |
| "Greetings [Student Name],  I'd be glad to meet with you to discuss [topic]. My regular office hours are [times and location].  If those times don't work with your schedule, I'm also available [alternative times/days]. Please let me know [preferred meeting time/specific topics you'd like to discuss] so I can prepare accordingly.  [If preparation needed: Please bring [materials/questions/assignments] to our meeting.]  Looking forward to speaking with you,  Professor [Last Name]" |

**Letter of Recommendations**

| **Accepting the Request for a Letter of Recommendation:** |
| --- |
| "Greetings [Student Name],  I'd be happy to write a recommendation letter for your [graduate school application/scholarship/job]. I remember you as [positive qualities observed in class].  To write the strongest letter possible, please send me the following by [deadline]:   * Your current resume/CV * Personal statement or essay for the program * Details about [specific program/position] * Submission deadline and format requirements * [Any specific points you'd like me to emphasize]   Best,  Professor [Last Name]" |
| **Declining the Request:** |
| "Dear [Student Name],  Thank you for thinking of me for your recommendation letter. Unfortunately, I don't feel I can write the strong letter you deserve for [reason: limited interaction/time constraints/better suited recommender available].  I'd suggest asking [alternative suggestion: professor from major/recent instructor/advisor] who might be better positioned to speak to your [relevant qualifications/experiences].  Best wishes with your application,  Professor [Last Name]" |

| **Prompt for drafting the letter:** |
| --- |
| [Date]  [Recipient Name] [Title] [Organization/Institution] [Address] [City, State ZIP Code]  Dear [Recipient Name/Hiring Manager/Admissions Committee]:  I am writing to provide my strongest recommendation for [Student Name], whom I have known for [time period] as [his/her/their] [relationship - e.g., professor, supervisor, mentor] in [context - e.g., Advanced Biology, internship program, research project]. In my [number] years of [teaching/working in field], [Student Name] stands out as one of the most [2-3 key qualities] students I have encountered.  During our time together, [Student Name] consistently demonstrated [specific strength #1]. For example, [specific example or anecdote that illustrates this strength]. Additionally, [he/she/they] showed remarkable [specific strength #2] when [specific situation and how student handled it]. What impressed me most was [his/her/their] ability to [specific skill or achievement], which resulted in [concrete outcome or impact].  [Student Name]'s [relevant skill/quality] particularly shines in [specific context]. [He/She/They] [specific example of excellence - academic performance, leadership, problem-solving, etc.]. This was evident when [detailed example]. [His/Her/Their] [character trait] and [another character trait] make [him/her/them] not only an excellent [student/employee/team member] but also someone who elevates those around [him/her/them].  I am confident that [Student Name] will excel in [specific program/position/field] and contribute meaningfully to [organization/institution name]. [He/She/They] has my highest recommendation without reservation. Please feel free to contact me at [phone number] or [email address] if you need any additional information.  Sincerely,  [Your signature]  [Your printed name]  [Your title]  [Your institution/organization]  [Your contact information] |

**Prompts for Claude to Enhance Lessons**

| **Purpose** | **Prompt** |
| --- | --- |
| Lesson Planning | "Create a detailed lesson plan for [topic] that incorporates active learning strategies and real-world applications." |
| Differentiation | "How can I modify this lesson to accommodate visual, auditory, and kinesthetic learners?" |
| Assessment Creation | "Generate a variety of assessment questions for [topic] ranging from basic recall to critical thinking." |
| Project Ideas | "Suggest creative project ideas that will help students demonstrate understanding of [concept] while building 21st-century skills." |
| Student Engagement | "What are some interactive warm-up activities for a lesson about [topic]?" |
| Feedback Enhancement | "Provide examples of constructive feedback statements for common student mistakes in [subject area]." |
| Time Management | "Suggest ways to break down this 60-minute lesson into efficient time blocks." |
| Scaffolding | "What are some scaffolding strategies I can use to help struggling students understand [concept]?" |
| Extension Activities | "Create challenging extension activities for students who finish early during our unit on [topic]." |
| Discussion Prompts | "Generate thought-provoking discussion questions that will encourage critical thinking about [topic]." |
| Study Guides | "Create a comprehensive study guide outline for [unit/topic] that highlights key concepts and vocabulary." |
| Student Reflection | "Suggest meaningful reflection questions for students to evaluate their learning after completing [assignment/project]." |
| Resource Creation | "Help me design a graphic organizer that will help students understand the relationships between [concepts]." |

**Creating importable exam questions for test pools**

| **Prompt I use: (*See Appendix B for a list of question type formats)*** |
| --- |
| Please analyze the [resource]. Create a 100-question exam over the content for a college [academic level] class, including questions that have:   * Direct, straightforward language * Clinical scenarios and real-world applications * Specific anatomical/physiological processes * Clear cause-and-effect relationships * Some questions require multi-step reasoning * A mix of basic recall and application * Scenarios that feel realistic (hospital settings, medical conditions, scientists performing experiments in the lab or field)   Make the questions a mixture of [question type].  Create all of this in an artifact that is a .txt format so it can be imported into Blackboard. Here are examples of the formats required for the file:  MC TAB *question text* TAB *answer text* TAB correct|incorrect TAB *answer two text* TAB correct|incorrect  TF TAB *question text* TAB true|false  MAT TAB *question text* TAB *answer text* TAB *matching text* TAB *answer two text* TAB *matching two text* |

| **Example .txt file output** |
| --- |
| MC A patient's blood sugar remains dangerously high despite producing insulin. Their cells have normal glucose transporters but insulin cannot bind effectively. This scenario best demonstrates: Hormone cascade failure incorrect Receptor dysfunction disrupting cellular communication correct Negative feedback loop malfunction incorrect Pituitary gland disorder incorrect  TF A high amount of physical and biological disturbances is a necessary natural component of ecosystems to maintain diversity. false |

**Appendix B: The language Blackboard uses for each question type**

| **Question Type** | **Structure** |
| --- | --- |
| **Multiple Choice** | MC TAB *question text* TAB *answer text* TAB correct|incorrect TAB *answer two text* TAB correct|incorrect  Text within ( ) may be repeated for each of the answers that are part of the Multiple Choice question. The maximum number of answers is 100. |
| **Multiple Answer** | MA TAB *question text* TAB *answer text* TAB correct|incorrect TAB *answer two text* TAB correct|incorrect  Text within ( ) may be repeated for each of the answers that are part of the Multiple Answer question. The maximum number of answers is 100. |
| **True/False** | TF TAB *question text* TAB true|false |
| **Essay** | ESS TAB *question text* TAB [example]  Text within [ ] is optional. You may choose to add a sample or leave this blank. |
| **Ordering** | ORD TAB *question text* TAB *answer text* TAB *answer two text*  Text within ( ) may be repeated for each of the answers that are part of the Ordering question. The maximum number of answers is 100. The order typed in the file is the correct order. The system will randomly order the answers. |
| **Matching** | MAT TAB *question text* TAB *answer text* TAB *matching text* TAB *answer two text* TAB *matching two text*  Text within ( ) may be repeated for each of the answers that are part of the Matching question. The maximum number of answers is 100. The system will randomly order the answers and their question. When uploading a matching question, you must have a one-to-one relationship between questions and answers. If not, correct answers may be marked incorrect if more than one answer has the same value. |
| **Fill in the Blank** | FIB TAB *question text* TAB *answer text* TAB *answer two text*  Text within ( ) may be repeated for each of the answers that are part of the Fill in the Blank question. The maximum number of answers is 100. |
| **Fill in Multiple Blanks** | FIB\_PLUS TAB *question text* TAB *variable1* TAB *answer1* TAB *answer2* TAB TAB *variable2* TAB *answer3*  The format consists of a list of variable-answers where each variable-answer is composed of the variable name and a list of correct answers for that variable. Variable-answers are delimited by an empty field.  The maximum number of variables is 10. |
| **File Response** | FIL TAB *question text* |
| **Numeric Response** | NUM TAB *question text* TAB answer TAB [optional]*tolerance* |
| **Short Answer** | SR TAB *question text* TAB *sample answer* |
| **Opinion/Likert Scale** | OP TAB *question text*  The maximum number of answers is 100. |
| **Jumbled Sentence** | JUMBLED\_SENTENCE TAB *question text* TAB *choice1* TAB *variable1* TAB *choice2* TAB TAB *choice3* TAB *variable2*  The format consists of a list of choices-answers. Each choice-answer consists of the choice followed by the list of variables for which that choice is the correct answer. An empty field indicates the end of a choice answer. A choice immediately followed by an empty field indicates that choice is not the correct answer for any variable.  The maximum number of answers is 100. |
| **Quiz Bowl** | QUIZ\_BOWL TAB *question text* TAB *question\_word1* TAB *question\_word2* TAB *phrase1* TAB *phrase2*  The format consists of a list of valid question words followed by an empty field and a list of valid answer phrases.  The maximum number of interrogatives is 103.  The maximum number of answer phrases is 100. |