

“We believe that learning how to learn is fundamental to a student's education.” – IBO.org

<https://www.ibo.org/about-the-ib/what-it-means-to-be-an-ib-student/>

Welcome to the IB Program at Eastside High School! In order to prepare for the upcoming school year, you should complete the following work independently (without the help of others), and in a timely manner.

Pre-IB Geometry Summer Assignment:

REGARDLESS of whether you are already familiar with the Cornell method of note-taking, watch the following video: <https://bit.ly/LSCC-htucn>. You do not need to take notes on this video.

In Pre-IB Geometry, homework assignments will include **taking notes**, either from the textbook or from other course materials (handouts, videos, online articles, etc.). “Notes” assignments will come in many formats, but the Cornell method of note-taking is one of the most common formats you will use for note-taking.

When you use Cornell notes in Geometry class, you will make the following modifications to the classic Cornell Notes structure. **Examples of the modified format are provided later in this document.**

<p>1. Add a Lesson section</p> <ul style="list-style-type: none">○ Track the chapter and name of the lesson at the top left, above the cue section	<p>2. Add a Biggest “Whoa!” section</p> <ul style="list-style-type: none">○ Leave a space above the notes to record your biggest “Whoa!” moment. Below are some examples of “Whoa!” moments:<ul style="list-style-type: none">▪ What was something in the lesson that surprised you?▪ What question are you still pondering?▪ Did you realize that any of your prior “knowledge” on the topic was based on a misconception?▪ How has the new information changed your mind about something?▪ If you are <i>absolutely</i> stuck and can’t think of a single thing... then what concept or idea can you share with someone else to give <i>them</i> a “Whoa!” moment?	<p>3. Add a Page & Date section</p> <p>Along the right-hand side of the header and notes section, create a column so that you can record the date you last reviewed this page of notes.</p>
<p>4. Specific guidelines for the Cues section</p> <ul style="list-style-type: none">○ All cues must be written in the form of a question.○ If your notes contain a list, the first cue for that section of the notes should generally prompt you to name the items in the list <i>without</i> providing a “hint” as to how many items are in the list (it’s not enough to only know the names of the items in a list – you should also know how many items are in a list; if you can list them, you can count them!)	<p>5. Specific guidelines for the Notes section</p> <ul style="list-style-type: none">○ There are no changes to the Notes section○ As a reminder, you should not be writing things down word-for-word!	
<p>6. Add a section for Visual Cues</p> <ul style="list-style-type: none">○ Visual Cues should be included after the Cues/Notes section and before the Summary○ One way to think of the Visual Cues section is as if it is a visual summary. Come up with a visual cue for as many of the concepts from the notes as you can. Visual cues make a great study tool!		
<p>7. Specific guidelines for the Summary section</p> <ul style="list-style-type: none">○ There are no changes to the Summary section○ Try to keep your summary short! What is the most necessary information?		

Pre-IB Geometry Summer Assignment (Continued):

After you have watched the How to Use Cornell Notes video **and** reviewed the information that explains how Geometry notes will be different from Cornell notes, do the following:

1. Register for the Coursera program called “*Learning How to Learn*”
<https://www.coursera.org/learn/learning-how-to-learn>
(Note: If you do not currently have a Coursera.org email, you will need to sign up for an account. You can register with your own email or with your school email address.)
2. As you watch the videos, use Cornell notes (with the modifications described on the previous page) to record the information. **Learning is not a passive process.** To get you started, there are three partially-filled templates, as well as one blank template.

<p>Lesson COURSERA: Learning How to Learn</p> <ul style="list-style-type: none">- Intro to the Focused & Diffuse Modes- Using the Focused & Diffuse Modes

The first Cornell notes page is used for **two** videos: “*Intro to the Focused & Diffuse Modes,*” and “*Using the Focused & Diffuse Modes – Or, A Little Dali will do You*”. Complete the following:

- The date
- One additional Note + Cue (write the cue as a **question!**)
- Your “Biggest WHOA moment”
- Draw a visual cue that can help you remember the information
- Add an additional piece of information to the summary **OR** paraphrase one of the key ideas that is already included in the summary.

<p>Lesson COURSERA: Learning How to Learn</p> <ul style="list-style-type: none">- Terrence Sejnowski and Barbara Oakley – Introduction to the Course Structure

Complete the second page of Cornell notes by watching “*Terrence Sejnowski and Barbara Oakley – Introduction to the Course Structure*”

- The **Cues** that are in the left-hand column are missing the Notes that are associated with them. Use **only** the video “*Terrence Sejnowski and Barbara Oakley – Introduction to the Course Structure*” to fill in the Notes column. You do not need to use any additional resources to complete these notes.
- The **Notes** that are in the right-hand column are missing Cues. Write your own Cue for each Note (in the form of a question!)
- Fill in all of the other section: Date, Biggest WHOA, Visual Cues, Summary.

<p>Lesson COURSERA: Learning How to Learn</p> <ul style="list-style-type: none">- What is Learning?
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Complete the third page of Cornell notes by watching “*What is Learning?*” It has been **started** for you, but you must include much more information than what has been provided to you!

Important: These are notes about LEARNING. You do not need to memorize scientific vocabulary or highly specific details. When you are deciding what Notes and Cues are important, think about what information you need to know to understand the **process of learning**. How could you explain the process to a ten-year-old? You might not use highly specific words like “default mode network” or “dendrite,” but you **would** still want to explain the important *concepts*.

Pre-IB Geometry Summer Assignment (Continued, 2):

- Once you have completed the three structured notes (provided as the final three pages of this document), continue to work through the videos in the remainder of the course, taking Cornell notes as you go. The written assignments and practice quizzes and are optional (although I encourage you to try a few, as it is a great way for you to see if you are actually learning the material... **learning is NOT a passive process!**). On the first day of school, you will have written 24 sets of Cornell notes (see the table below). Some videos should be combined into a single document; these are indicated with a “+”. Pay attention to the video titles; some videos have been excluded from the list and this is not a mistake.

A few additional notes:

- **NOTES MUST BE TAKEN ON LOOSELEAF PAPER** (not in a composition book or spiral-bound notebook)
- Notes must be **handwritten** unless you have specific academic accommodations
- Notes must be **one-sided**
- If you need more than one sheet of paper to make Cornell notes for a video, create a new Cornell Notes page (this means that you might have 2-3 “Biggest Whoa Moments” for one video, if you have three pages of notes for one video)

<p>Partially filled Cornell notes from this packet:</p> <ol style="list-style-type: none"> Intro to the Focused & Diffuse Modes + Using the Focused & Diffuse Modes Terrence Sejnowski and Barbara Oakley – Introduction to the Course Structure What is Learning? 	<p>Additional Cornell Notes from Module 1:</p> <ol style="list-style-type: none"> Practice Makes Permanent Introduction to Memory The Importance of Sleep in Learning
<p>Cornell Notes from Module 2:</p> <ol style="list-style-type: none"> Introduction to Chunking + What is a Chunk? How to Form a Chunk, Part 1 + How to Form a Chunk, Part 2 Illusions of Competence What Motivates You? The Value of a Library of Chunks Generative AI Unleashes the Learning Potential of Metaphors Overlearning, Choking, Einstellung, Chunking, & Interleaving 	<p>Cornell Notes from Module 3:</p> <ol style="list-style-type: none"> A Procrastination Preview (this one is located in Module 1) + Introduction to Procrastination & Memory Tackling Procrastination – It is Easier, and More Valuable, Than You Think Zombies Everywhere Surf is Up: Process Versus Product Harnessing Your Zombies to Help You Juggling Life and Learning Diving Deeper into Memory What is Long Term Memory? Creating Meaningful Groups and the Memory Palace Technique
<p>Cornell Notes from Module 4:</p> <ol style="list-style-type: none"> How to Become a Better Learner Introduction to Renaissance Learning & Unlocking Your Potential + Creating a Lively Visual Metaphor or Analogy No Need for Genius Envy 	

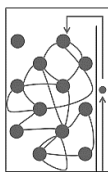
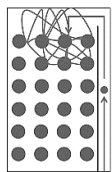
These notes are due on the first day of school. In addition, by the time we start class, you will be a pro at taking notes! This skill will serve you in Pre-IB Geometry, as well as all of the other pre-IB classes you will be taking in your first year at Eastside High School!

Should you have any questions or concerns, the following is my contact information:

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Lesson COURSERA: Learning How to Learn - Intro to the Focused & Diffuse Modes - Using the Focused & Diffuse Modes	Biggest “WHOA!” moment	Page 1 Date: _____ R1: _____ <input type="checkbox"/> R2: _____ <input type="checkbox"/>
Cues How many modes of thinking are discussed in this lesson? What are they? <i>* ALL cues are questions! You need to know how many items are on a list, without a hint!!</i> What is focused thinking? <i>*It's generally good practice to try to list the terms (such as the previous cue) before you define them (this cue)</i> What is diffused thinking? What analogy was used for thinking of focused vs. diffuse mode? <i>*It's not important to memorize this specific analogy, but if you remind yourself that an analogy EXISTS it provides a cue for how to think of an abstract concept in more concrete terms</i> What is diffuse mode useful for? What famous people are known for intentionally using diffuse mode? <hr/> <hr/>	Notes There are 2 modes of thinking: <u>Focused</u> , <u>Diffused</u> Focused thinking: “concentrating intently” when trying to learn Diffused thinking = more relaxed Analogy of pinball machine: Thoughts bounce around neural pathways / neural patterns. Some patterns easier to access. Some patterns more familiar, but not “better.” Diffuse mode ~ zooming out and trying to see the <i>bigger picture</i> . X Can't work out <i>details</i> of problem, \checkmark can get in <i>general area</i> . Dalí and (supposedly) Edison developed strategies to enter diffuse: nod off to sleep while thinking about problem. Drop object, loud noise \therefore wake up <hr/> <hr/>	

Visual Cues



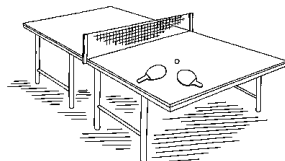
1



2



3



4

5

Summary

Analogies, metaphors, similes are useful tools to assist with learning

Two modes of learning: focused & diffused. Focused mode is concentrated and detail-oriented, good for reaching a final solution. Diffuse mode is more relaxed and is good for getting in the right “neighborhood” of a solution.

Learning takes time because new pathways have to form and the brain needs to switch back and forth from focused and diffuse modes multiple times.

Image sources:

1. <https://avthar.com/blog/why-you-have-your-best-ideas-in-the-shower>
2. <https://www.youtube.com/watch?v=F-eeKc7z5IM>
3. <https://www.alamy.com/vector-black-and-white-light-bulb-icon-back-to-school-educational-clipart-cute-outline-illustration-education-clever-mind-or-business-idea-linear-image516574150.html>
4. <https://www.alamy.com/ping-pong-table-sport-graphic-black-white-isolated-sketch-illustration-vector-image367314182.html?imageid=29358D10-F1F8-442C-BC34-F59107098C3F&p=1307089&pn=1&searchId=e4da4f87cf80684eafe17731912c653d&searchtype=0>

Lesson COURSEERA: Learning How to Learn - Terrence Sejnowski and Barbara Oakley – Introduction to the Course Structure	Biggest “WHOA!” moment	Page 2 Date: _____ R1: _____ <input type="checkbox"/> R2: _____ <input type="checkbox"/>
Cues What are the goals of the course? What am I expected to do with this information? What are Terrence Sejnowski’s credentials? What makes him qualified to teach me about learning?	Notes Infor from course based on research 25. Neuroscience 26. Cognitive psych. 27. Experienced instr. in challenging subjects Esp. useful for math, science Condensing key ideas = easier to und. material	
Visual Cues		
Summary		

Lesson COURSERA: Learning How to Learn

- What is Learning?

Biggest "WHOA!" moment

Page 3

Date: _____

R1: _____

R2: _____

Cues

Why is the brain considered to be
"a very expensive organ" ?

What was the "old view" of the
brain?

What is the new understanding
of the brain?

Notes

Some parts of brain active when I'm active,
diff. parts of brain active when I'm resting

Visual Cues

Summary

Lesson COURSERA: Learning How to Learn -	Biggest "WHOA!" moment	Page Date: _____ R1: _____ <input type="checkbox"/> R2: _____ <input type="checkbox"/>
Cues	Notes	
Visual Cues		
Summary		