

Lecture 2-1

To allow you to better chunk the meaning of chunk, pause and recall, then write your best synthesis description here of the meaning of "chunking."



Lecture 2-2

One concern about using worked-out examples to help you in starting to form chunks is that (select the correct answer):



it can be all too easy to focus too much on why an individual step works and not on the connection between steps—that is, on why this particular step is the next thing you should do.

Well done!



it can be all too easy to focus too much on the connection between steps and not on why an individual step works.

Lecture 2-3

One common mistake that learners make is to refuse to move on in their reading until they fully understand the material in the book in front of them. But sometimes skipping ahead can help. Which one of the following learning practices might help prevent getting bogged down by petty details before you begin to see the bigger picture?



Try taking a "picture walk" through the material to gain big picture context before diving into the details.

Well done!



Don't spend much time at all with the book--just focus on the answers inside of you.



As mentioned in the video, hopping around on one foot can be surprisingly beneficial in allowing you to figure out the finer details of a challenging concept.

Which of the following statements is true about top down and bottom up learning?



There is a bottom-up chunking process where practice and repetition can help you both build and strengthen each chunk, so you can easily gain access to it when needed.

Well done!



There is a top-down “big picture” process that allows you to see where what you are learning fits in.

Well done!



Both bottom-up chunking processes and top-down "big picture" processes are vital in gaining mastery over the material.

Well done!



Chunking may involve your learning how to use a certain problem-solving technique. Context means learning when to use that technique instead of some other technique.

Well done!

Lecture 2-4

Poll Results

Anagrams are rearrangements of letters so that one word or phrase can spell something different. Let's say you have the phrase “Me, radium ace.” Can you rearrange it to spell the last name and honorific (title) of a famous physicist?

By the way, the answer to this question is "**Madame Curie.**"

In the above question, do you think that your eye drifted naturally to the solution, so that the anagram seemed easier to solve than it truly was?

Yes

76%

No

24%

11,798 responses

Lecture 2-4A

Three neuromodulators were discussed in this video--acetylcholine, dopamine, and serotonin. Each neuromodulator affects or signals for a particular type of behavior.

Select the correct three options below, in accordance with what was discussed by Dr. Sejnowski in this video. (Hint: this might be a particularly helpful question to be able to answer as you are preparing for this week's quiz!)



Acetylcholine affects focused learning and attention

Well done!



Dopamine signals in relation to unexpected rewards

Well done!



Serotonin affects social life and risk taking behavior

Well done!



Dopamine signals in relation to focused learning and attention

Well done!



Acetylcholine signals in relation to unexpected rewards.

Well done!



Serotonin affects people's sense of humor, but only on Wednesdays.

Well done!

Lecture 2-5

Chunks can help you understand new concepts through a process called _____.



transfer

Well done! Great--this is correct!



deliberate learning



Einstellung



illusions of competence

Lecture 2-6

Select the true statements below that relate to the concept of Einstellung.



It can sometimes be all-too-easy to take a wrong approach about problem solving or understanding a concept, because sometimes your initial intuition about what's happening or what you need to be doing is misleading.

Well done!



In Einstellung, your simple initial thought, an idea you already have in mind, or a neural pattern you've already developed and strengthened, may prevent a better idea or solution from being found.

Well done!



"Einstellung" is a word that is defined to mean "continued focused practice on a concept you find more difficult."

Well done! It is not Einstellung, but rather, "deliberate practice" that involves continued focused practice on a concept you find more difficult.

Lecture 2-7

To help you better chunk and remember the ideas in this section, please pause to recall the main ideas we've covered in week two. Write them below.

