## Teaching for Learning

## There are 6 strategies for effective Learning

- (1) Retrieval practice.
- (2) Dual coding
- (3) What is dual coding?

Dual coding is the process of combining verbal materials with visual materials. There are many ways to visually represent material, such as with infographics, timelines, cartoon strips, diagrams, and graphic organizers.

When you have the same information in two formats - words and visuals - it gives you two ways of remembering the information later on.

## How should you practice dual coding?

When you are looking over your class materials, find visuals that go along with the information and compare the visuals directly to the words.



### LEARN TO STUDY USING ...

# **Dual Coding**

COMBINE WORDS AND VISUALS

LEARNINGSCIENTISTS.ORG



GRAPHIC



Look at your class materials and find visuals. Look over the visuals and compare to the words.



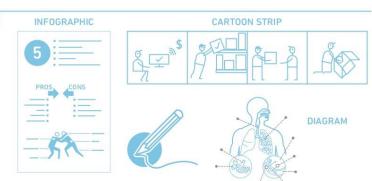
Look at visuals, and explain in your own words what they mean.



Take information that you are trying to learn, and draw visuals to go along with it.

HOLD ON!

Try to come up with different ways to represent the information visually, for example an infographic, a timeline, a cartoon strip, or a diagram of parts that work together.



### TIMELINE

EVENT1 EVENT2 EVENT3 EVENT4 EVENT5
2012 2013 2014 2015 2016

Work your way up to drawing what you know from memory.





#### RESEARCH

Read more about dual coding as a study strategy Mayer, R. E., & Anderson, R. B. (1992). The instructive animation: Helping students build connections between words and pictures in multimedia learning. *Journal of Educational Psychology*, 4, 444-452.

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# Graphic Organisers

Suggested ideas.<a href="https://www.teachervision.com/top-10-most-popular-graphic-organizers">https://www.teachervision.com/top-10-most-popular-graphic-organizers</a>

