



The Engaged Brain


- Brain Research & Its Applications
- Active Engagement Techniques

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Rat Brain Research

- The importance of a nurturing, stimulating environment
- Whoever talks the most about content is the person whose brain is getting the heaviest

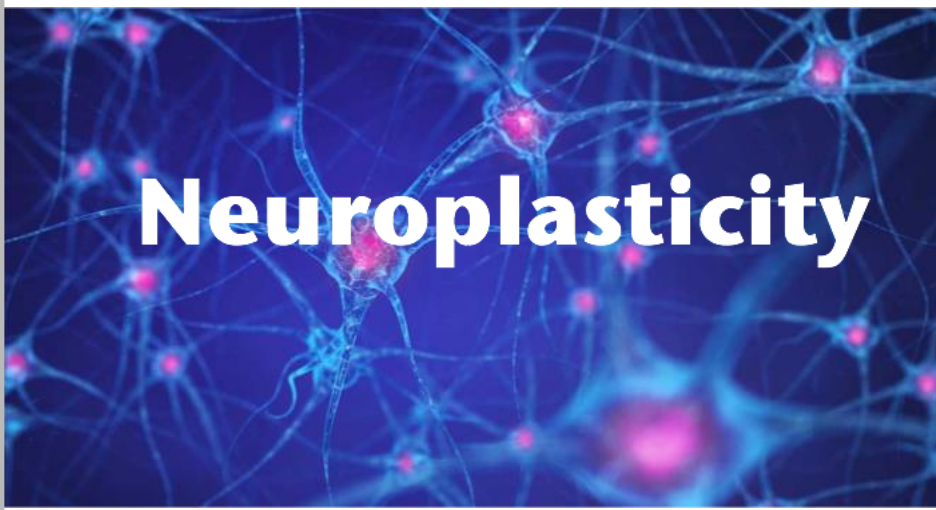




Mirror Words

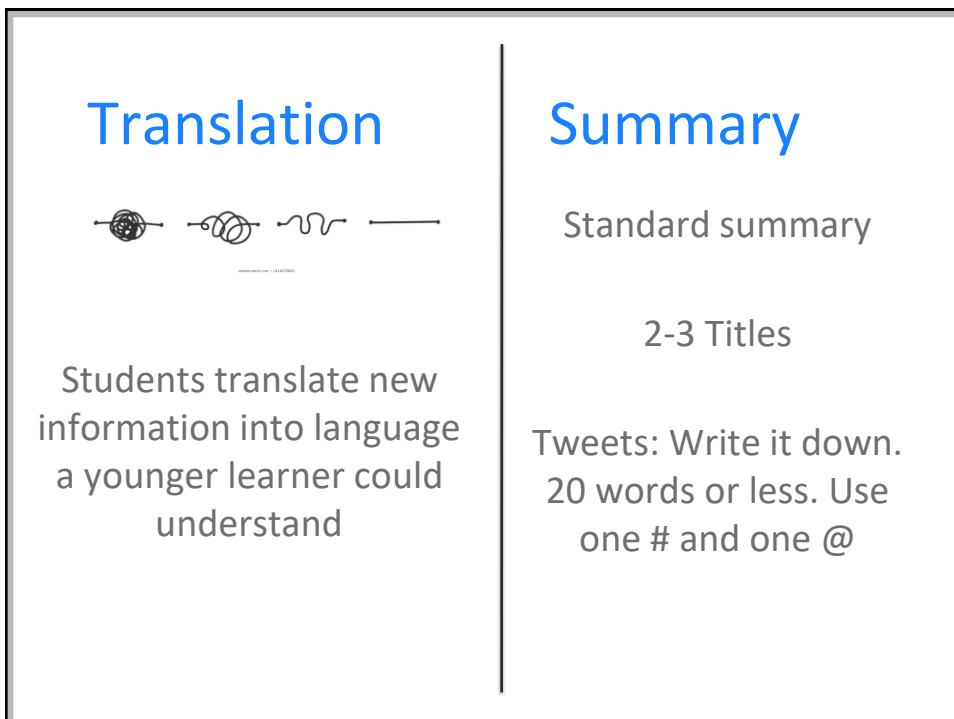
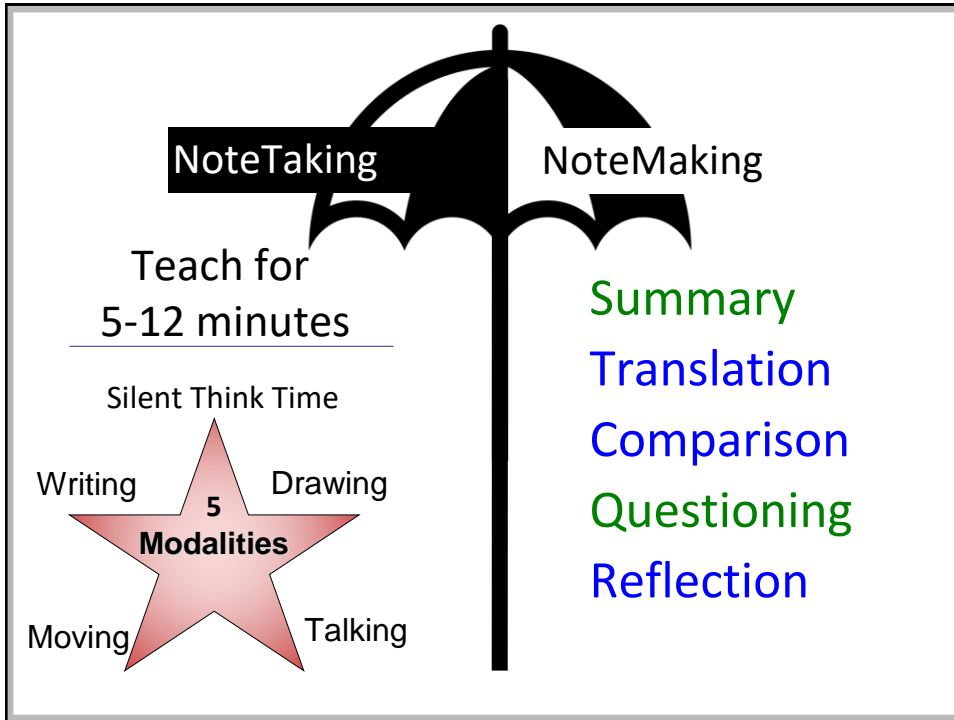
Teacher uses gestures to illustrate the definition of a word.

Students “mirror” (copy) the gestures.



Neuroplasticity

The growing and withering of neural connections based on usage



Comparison



Students compare
new content to
something they
already know

Examples

Math:

number line to balloon
isosceles triangle to birthday cake
Pythagorean theorem to binge
watching tv show

Social Studies:

Redcoats to ants
Civil War to a flood
FDR's New Deal to a spaceship

English:

adverbs to a dog with fleas
rising action to building a house
character in a book to something in
your refrigerator

Questioning



students create quiz
questions (?)
or ask authentic
questions (!)

Reflection



Students think about what
they've learned and what
was memorable or confusing
or missing.