

research



ED

National Conference

7th SEPTEMBER 2019

2019

#rED19

Paul Kirschner

Standing on the shoulders of giants.

SKETCHNOTE by @mrshawthorne7

“THE MOST POWERFUL INFLUENCE ON LEARNING IS WHAT YOU ALREADY KNOW”

ELABORATION REIGELUTH

- begin with the broad view
- zoom in carefully



COGNITIVE LOAD THEORY SWELLER

A C I A D I Y T L R

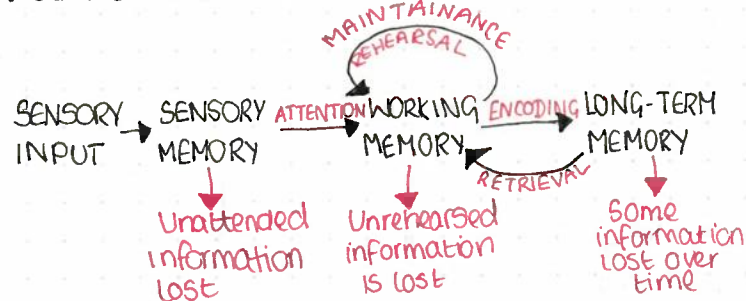
C H U N K T H E K N O W L E D G E

INTRINSIC - to the task itself
 EXTRINSIC - added by teaching

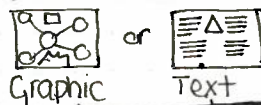
$$CL = \frac{\text{task demand}}{\text{available resources}}$$

Goal of teaching is NOT to minimise cognitive load, Learning needs to be effortful but in the right way

INFORMATION PROCESSING ATKINSON & SHRIFIN

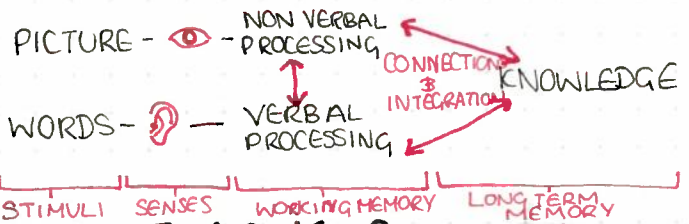


ADVANCE ORGANISERS AUSUBEL



GIVE the students the foundational knowledge
 Show how it's going to connect to what the student already knows

DUAL CODING PAVIO



EXPERT TEACHERS

