**WORKING MEMORY** 







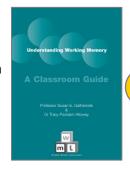
## **#3: WORKING MEMORY AND COGNITIVE LOAD**

WORKING MEMORY: MEMORY THAT INVOLVES STORING, FOCUSING ATTENTION ON, AND MANIPULATING INFORMATION FOR A RELATIVELY SHORT PERIOD OF TIME (SUCH AS A FEW SECONDS)

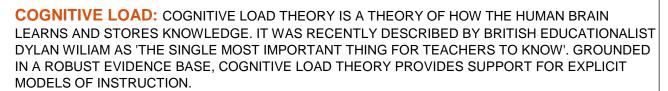
COGNITIVE LOAD: COGNITIVE LOAD THEORY, DEVELOPED FROM THE WORK OF JOHN SWELLER, IS BASED ON THE TYPES OF INFORMATION HELD IN WORKING-MEMORY AT ANY ONE TIME. THESE ARE KNOWN AS INTRINSIC LOAD, EXTRANEOUS LOAD AND GERMANE LOAD AND, ADDED TOGETHER, MAKE UP THE CAPACITY OF THE WORKING MEMORY.

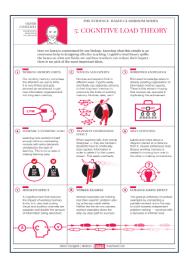
'Many of the learning activities that children are engaged with in the classroom, whether related to reading, mathematics, science, or other areas of the curriculum, impose quite considerable burdens on **working memory**. Activities often require the child to hold in mind some information (for example, a sentence to be written down) while doing something that for them is mentally challenging (such as spelling the individual words in the sentence).

Understanding working memory - a classroom guide, Gathercole and Alloway, 2007





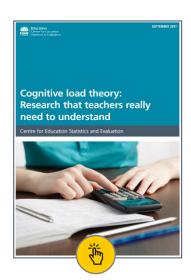




### LINKED POSTER

9 IMPORTANT IDEAS WITHIN COGNITIVE LOAD THEORY (OLIVER CAVIGLIOLI)





# Podcast Available on Soundcloud

### LINKED PODCAST

COGNITIVE LOAD THEORY: RESEARCH THAT TEACHERS REALLY NEED TO UNDERSTAND (33 MINS)



#### **5 LINKED BLOGS**

FOUR WAYS COGNITIVE LOAD THEORY HAS CHANGED MY TEACHING (GREG ASHMAN)



COGNITIVE LOAD THEORY
AND ITS APPLICATION IN
THE CLASSROOM
(DOMINIC SHIBLI AND
RACHEL WEST)



COGNITIVE LOAD THEORY AND WHAT IT MEANS FOR CLASSROOM TEACHERS (ANDY THARBY)



USING COGNITIVE LOAD THEORY TO IMPROVE SLIDESHOW PRESENTATIONS (ANDY THARBY)



4 PROBLEMS COGNITIVE LOAD THEORY STILL NEEDS TO SORT OUT (INNER DRIVE)

