

THE SCIENCE OF LEARNING

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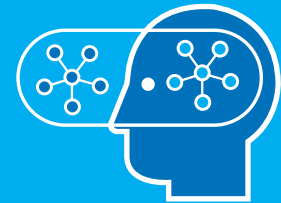
1

Students learn new content by reference to their prior knowledge. They do this by transferring it from their working memory into their long-term memory where it is stored and later retrieved. Working memory has limited capacity and becoming overloaded means learning is greatly impeded.



3

Committing facts to long-term memory frees working memory resources for solving problems.



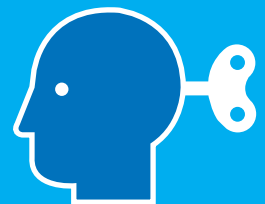
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Transferring knowledge requires a deep understanding of its underlying structure.



2

Information is mostly taken from memory in exactly the way in which it went in. For this reason, it's important for students to think of the meaning of things to strengthen their memory and deepen their understanding for effective retrieval.



5

Self-determined motivation leads to better long-term outcomes than controlled motivation.



6

There are many, romantic, myths about learning. Be aware of them and avoid like the plague!