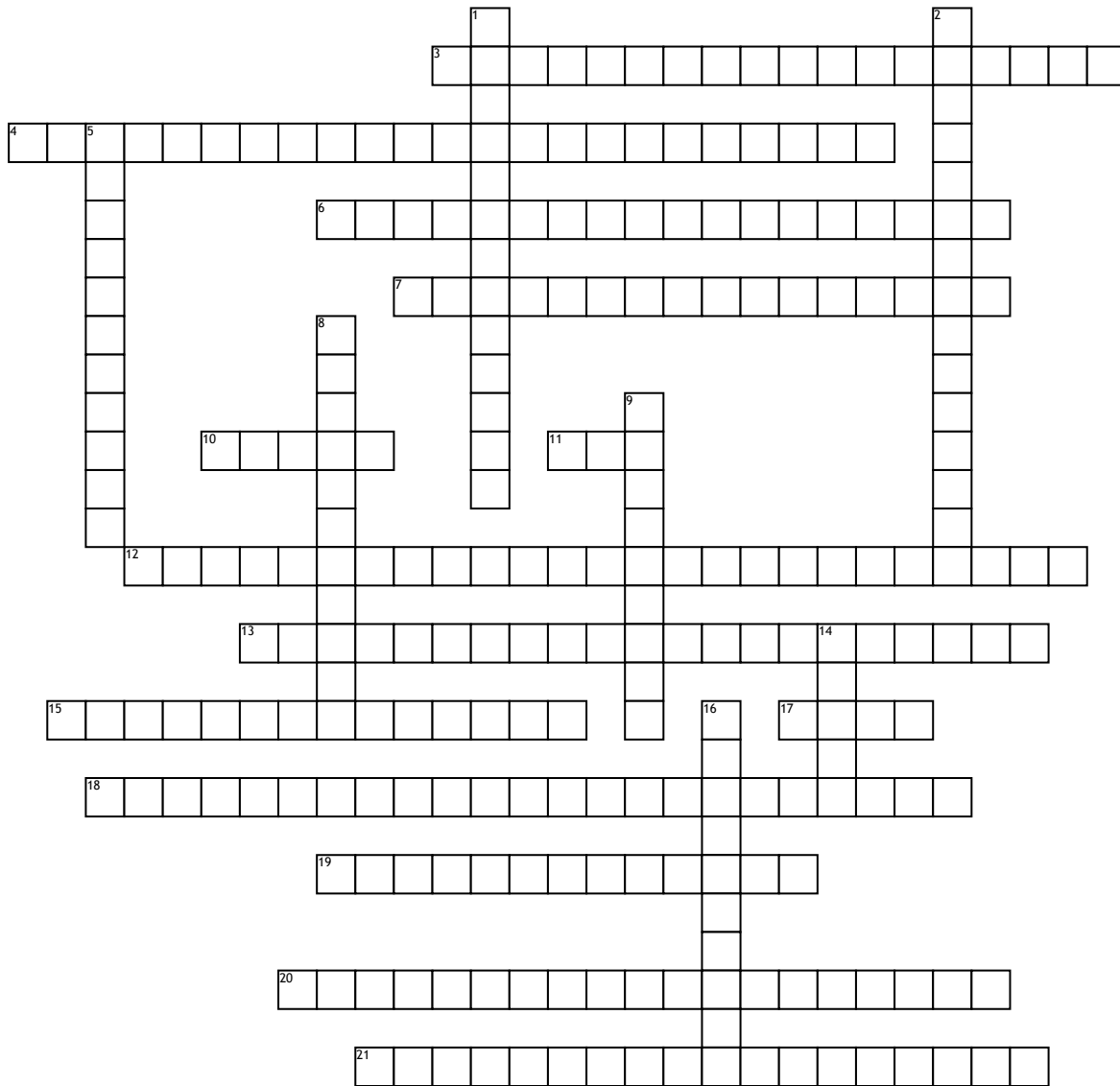


# Metacognition and Problem Solving



## Across

3. A special kind of procedural knowledge-knowing how to do something.  
Ex: summaries, underlining and highlighting, and taking notes.
4. Heuristic in which you start at the goal and move backward to the unsolved initial problem.
6. Heuristic in which one limits the search for solutions to situations that are similar to the one at hand.
7. The tendency to search for information that confirms our ideas and beliefs.
10. A strategy to help students learn how to identify, organize, define and remember words, which increases their ownership of their learning.
11. Something teachers can use to guide reading and inquiry

12. Including Attention, Rehearsal, Organization, Imagery, and Elaboration. These executive control processes are sometimes called metacognitive skills, because they can be intentionally used to regulate cognition.
13. Judging the likelihood of an event based on what's available in your memory, assuming those easily remembered events are common.
15. Formulating new answers and going beyond the simple application of previously learned rules to achieve a goal.
17. Another way for students to comprehend what they are reading.
18. Judging the likelihood of an event based on how well the events match your prototype--what you think is representative of the category.
19. Putting your problem solving-plan and its logic into words.

20. Inability to use objects or tools in a new way.

21. The tendency to hold onto beliefs, even in the face of contradictory evidence.

## Down

1. "Knowledge or awareness of self as knower."
2. Dividing the problem into a number of immediate goals (subgoals), and then a means for solving each subgoal is found.
5. Rigidity; the tendency to respond in the most familiar way.
8. Graphical tools for organizing and representing knowledge and relationships within a particular field or on a given topic.
9. Step by step prescription for achieving a goal.
14. A way for students to process what they have read.
16. A general strategy that might lead to the right answer.