

Depth of Knowledge Levels and Characteristics

DOK Level	Characteristics
Level 1: Recall and Reproduction	Students recall or reproduce information or carry out a known procedure.
Level 2: Skills and Concepts	Students use information or conceptual knowledge to solve a problem. Often two or more steps are necessary to complete a task.
Level 3: Strategic Thinking	Students reason and develop a plan that will lead to a solution. Multiple steps or sources are an indication of the need for strategic thinking. There may be multiple answers to a problem.
Level 4: Extended Thinking	Students think and investigate over time. Students need to review multiple facets of a problem.

Webb, N. (1997). Criteria for alignment of expectations and assessments in mathematics and science education (Research Monograph No. 6). Madison: University of Wisconsin-Madison, National Institute for Science Education.

Webb, N. (1999). Alignment of science and mathematics standards and assessments in four states (Research Monograph No. 18). Madison: University of Wisconsin-Madison, National Institute for Science Education.