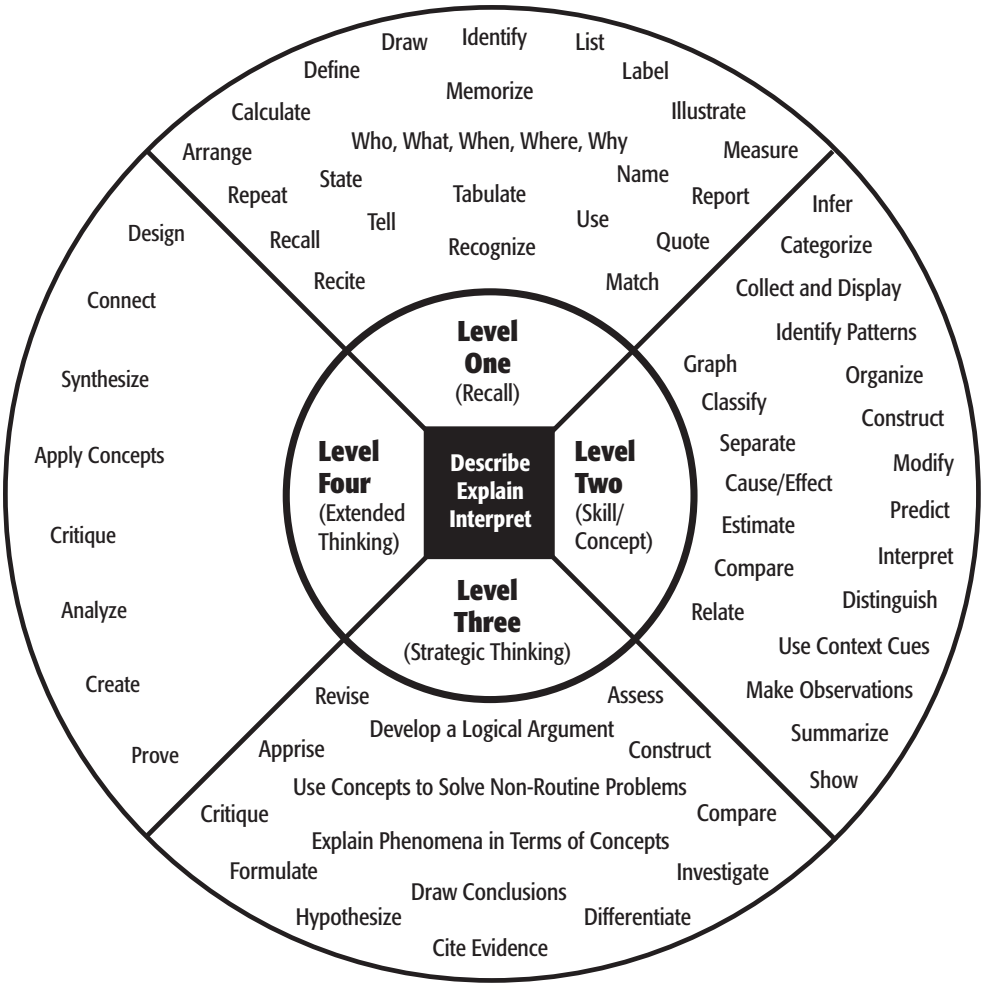
Depth of Knowledge Levels One to Four in Walch Programs

Every sub-lesson in each Walch CCSS Integrated Math program has a Problem-Based Task (PBT) embedded within it. Each PBT represents Depth of Knowledge level three (strategic thinking) or level four (extended thinking). Students formulate, hypothesize, analyze, create, and prove in order to solve the problems. These tasks can be used to initiate the exploration of a standard, to develop conceptual understanding, or to follow instruction as an opportunity for application.

We know that some students will struggle at those levels, so we've created optional Coaching Questions to guide students through the Problem-Based Tasks. The Coaching Questions break down the tasks to a series of level one (recall) or level two (skill/concept) steps where students identify, recall, categorize, relate, identify patterns, and so on. As students complete the Coaching Questions, they take the steps necessary to reach a solution. Not all students should be given the Coaching Questions, but these pages are available for use at the teacher's discretion. Regardless, Problem-Based Tasks, with or without Coaching Questions, develop and refine higher order thinking, and their use enables more and more students to learn to think at the higher DOK levels and to solve problems independently.

Depth of Knowledge (DOK) Levels