



TOOL // Mathematics Problem Solving Checklist

What is it used for?

This tool is a checklist for problem solving strategies used in math, particularly in group problem solving situations. The teacher can quickly check off if students are using specific strategies, or if they are choosing appropriate manipulatives, working collaboratively etc.

How do you use it?

The teacher writes in the names of students who will be assessed during the learning activity. As the teacher walks around to different groups he/she observe individual students and uses the checklist to assess how they are working within the group and/or with the problem.

Teacher may only be checking for a few of the items recorded on the checklist, or may stay with one group and observe them more closely and check for more of the items on the list.

Mathematics Problem Solving Checklist

Task:

Student Name	Reads the problem carefully and identifies the most important information	Selects the most appropriate strategy or combination of strategies to solve the problem	Does the necessary and appropriate calculations, and revises or applies different strategies if necessary	Checks the reasonableness of the answer and considers extensions or variations	Uses manipulatives, models, drawings, words, pictures, symbols, calculators, etc. appropriately	Discusses ideas collaboratively with the group to clarify which strategy would work best	Contributes appropriately to the group and shares the work equitably	Describes how the solution was reached clearly and effectively