

My Action Plan – Sample 1 Related to Problem Solving in my Mathematics Program

What is my goal?

To teach my students math concepts using a problem-solving approach

Why is this goal important to me and to my students?

Students learn new concepts more easily when the concepts make sense to them. By providing problem-solving experiences that focus on new concepts, students can make sense of new ideas in meaningful ways.

What, specifically, will I focus on?

Providing problems that develop students' understanding of math concepts

Providing problem-solving experiences with manipulatives that allow students to represent and discuss mathematical ideas

How will I know if I am making progress towards my goal?

the students will demonstrate an understanding of the math concepts they are studying

the students will be able to use manipulatives to model and explain mathematical ideas

My Action Plan – Sample 1 (continued)

What specific actions can I take now (short-term goals)?

Speak to the math consultant about resources that will provide ideas for teaching math concepts through problem solving.

Plan lessons in which students need to solve a problem that focuses on math concepts.

Encourage students to use manipulatives in problem-solving activities.

What actions can I take over a period of time (long-term goals)?

Study the Ministry documents to learn about the Big Ideas in math and ways to teach them effectively.

Continue to plan learning activities that focus on problem solving and using manipulatives.

Continue to collect manipulative materials.

What resources (human, print, electronic) can support me?

- A Guide to Effective Instruction in Mathematics, Number Sense and Numeration (Ministry of Education)

- SuperSource series

- Resource documents from the Education Centre library

- Speak to the math consultant about any study groups /courses/ workshops on teaching problem solving.