

## **Problem-Solving Strategy – Use Logical Reasoning**

Yew, W. T.; Lian, L. H.; and Meng, C. C. (2017). Problem solving strategies among primary school teachers. *Journal of Education and Practice* 8(15), 136-140.

Muckerheide, P.; Mogill, H.; and Mogill, A. T. (1999). In search of fair game. *Mathematics and Computer Education*, 33(2).

**This targeted intervention enables students to use the information they have been given to eliminate possible solutions and discover the correct solution.**

### **Materials:**

- Word problems
- Paper/Pencil
- Graphic Organizers
- Chart with **Use Logical Reasoning**
  - (1) Organize your information.
  - (2) Examine the relationships and think about the information you have.
  - (3) Think about each relationship to reach a logical conclusion.
  - (4) Explain your thinking and conclusion.

### **Steps:**

1. The teacher and student(s) read the problem together. The teacher paraphrases the problem.
2. The student(s) restate the question in own words.
3. The student(s) determine the important information.
4. Using the **Use Logical Reasoning**, the student(s) solve the problem and explain their thinking.