	Common Language	Elaborate	Evaluate
8. Reflective Knowing	**Algebraic Reasoning** Algebraic reasoning is the ability to think logically about unknown quantities and the relationships between them. *Teach mathematical reasoning skills.* *(This cognitive domain builds the capacity for logical thought, reflection, explanation, and justification.)* *Math is about using logic to explain and justify a solution to a problem. It is the mental muscle necessary to successfully explore puzzles. It can also extend something known to something not yet known. (www.cde.state.co.us)* **Representation Strategies** Allow students to use a variety of functions, graphs, equations and so forth, making it possible for them to draw conclusions and make conjectures about the relationships between them.	**Higher Order Questions:** **Working Groups** Discuss other strategies and how these might be represented. Justify what you think is the most likely number of people in the class. **Problem Solving** Have you identified the individual aspects/components of the problem to be solved? Compare your Ask-Think-Do poster with another group to discuss the differences and similarities **Recognising Problem Type** Create a two variable and two unknown problem of your own.	**Working Groups** **(SRA) Summative Task** Design an alternative problem where you might use this strategy. **Problem Solving** **(SRA) Group Report** Focus on strategies for problem solving. **Recognising Problem Type** **(SRA) Create 3** Use the picture story book, for example “One is a Snail, Ten is a Crab”, “The Three Billy Goats Gruff”, Dr Seuss and create 3 of the 8 problem types investigated earlier.