Research Question:
How does the consistent usage of the principals underpinning peer teaching across grades 5-8 improve student’s comprehension and problem solving abilities?

Ringarooma Goal
For students to successfully interpret a worded mathematical problem using visualisation techniques so that they may then know how to proceed and solve the problem using an appropriate strategy.

How does this fit into our school context? (In relation to our strategic plan)
One of the areas in our strategic plan is Literacy/Numeracy, with our goals being
- To increase the number of students achieving at a C standard in English and Mathematics.
- Students will consistently achieve NAPLAN results at a level the same as Tasmania.

By teaching the students how to effectively problem solve, this will give them more skills to successfully reach our school goals.

Target
Students will demonstrate more confidence in reading, comprehending and solving mathematical problems. Students’ scores for PAT-M and NAPLAN will show value added on problem solving questions.

Strategies
- Students will work in groups of 4 based on the Literature Circles framework, to complete complex mathematical problems.
- The roles within these groups will be:
  - Word Finder – Student defines necessary words in the problem, both mathematical and non-mathematical.
  - Image Maker – Represents the problem using materials, graphs, tallies and drawings.
  - Transformer – Writes the problem as a mathematical equation.
  - Re-teller – Locates what is vital and disregards what is irrelevant before retelling the problem in its simplest form.
- Compare answer/strategies with a student who has worked independently.
- Explicitly teaching the students the different roles in Mathematical Circles, with a focus on the Image Makers role.

How do we measure our work? (Data)
- NAPLAN
- PAT-M
- Survey of teachers and students
- Video
- Scrapbook

Connections to Scottsdale High School
- Develop shared language/understanding
- Consistency of strategies used to assist student transition