#### Numeracy

### See Plan Do Check

Approaching mathematical problems can be done in an organised, structured way in any KLA.

### Step 1: Understand the Problem - (SEE)

- Carefully read the problem
- Decide what you are trying to do
- Identify the important data

### Step 2: Devise a plan -(PLAN)

- Gather together all available information.
- Consider some possible actions:
- \* look for a pattern;
- \* draw a sketch;
- make an organised list;
- \* simplify the problem;
- \* guess and check;
- \* make a table;
- \* write a number sentence
- \* act out the problem;
- \* identify a sub-task; and
- \* check the validity of given information

# Step 3: Carry out the plan - (DO)

- Implement a particular plan of attack.
- Revise and modify the plan as needed.
- Create a new plan if necessary.

## Step 4: Check the answer - (CHECK)

- Ensure that you have used all the important information.
- Decide whether or not the answer makes sense.
- Check that all of the given conditions of the problem are met by thte answer.
- Put your answer in a complete sentence.

### Activating Thinking (Numeracy)

Activating thinking activities provide short tasks/questions/situations that require students to "think hard".

The concept behind activating thinking is to address areas where students have not performed well, in an engaging, collaborative way. The focus areas are reading and numeracy.

Students are expected to:

- ✓ Think hard
- ✓ Collaborate with each other
- ✓ Discuss their answers
- ✓ Justify their responses
- ✓ Use the phrase "I think.... because....."
- ✓ Participate in all activities

### Activating Thinking – Numeracy

Activate thinking in Numeracy is around an open ended question/activity that targets a specific numeracy area.

Activities are designed to illicit simple responses from <u>all</u> students while providing the scope to extend the thinking of more advanced students.

Students regularly use little whiteboards to record their thinking. Students are encouraged to write notes, rub things out and take risks to be successful in these activities.

