Planning for an Effective Mathematics Lesson:

Classroom Data:

taken from whole class pre-test.

Teaching Focus:

List the specific concepts, formulas, facts etc to teach.

eg, Converts mL to L
V=LxHxW formula

Learning Context:

Games
Literature
Media
Open-ended tasks
Real life experiences
Thinking tools
ICT
Mathletics
etc

Mathematical Language:

list vocabulary specific to the concept being taught.

e.g. volume capacity

Mathematical Materials:

list all resources required for teaching the concept

Assessment Strategy

Pre-test prior to teaching concept
Observations
Anecdotal notes
Post test at end of concept
Checklist results from pretest and post test to compare learning.

Teacher Reflection:

Post concept
Data from end of concept test (same as pretest)
Compare scores
what needs to be revisited?
what areas require extension?
Which students need support or extension?

Are the students... questioning, identifying, explaining, making, drawing, writing, building, appreciating, exploring and discussing?

Whole Class Teaching Approach:

Whole - small - whole
Mental Maths to focus on...
Explicit teaching of the concept
Interactive materials, hands-on, written questions and problem solving

Mental Maths:

identify strategy to focus on eg. subtraction, addition, number facts, place value etc

e.g when multiplying by 10 just add a 0.

Independent Practice:

Small groups - list what learning concepts need to occur and activities to complete.

Teaching Group 4:

List students names
Students can be grouped in abilities according to the pretest and results from student data section

Teaching Group 3:

List students names
Students can be grouped in abilities according to the pretest and results from student data section

Teaching Group 2:

List students names
Students can be grouped in abilities according to the pretest and results from student data section

Teaching Group 1:

List students names
Students can be grouped in abilities according to the pretest and results from student data section