

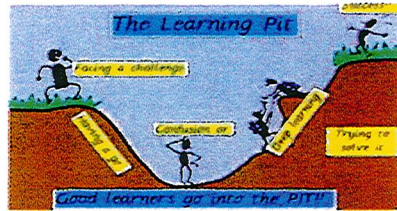
NUMBER TALKS WORKSHOP – PLACEMAT

Principles and practices that underpin our pedagogical approach

BUILDING BLOCKS OF NUMBER TALKS

CLASSROOM CULTURE

- 5 okays
- Zone of confusion or learning pit



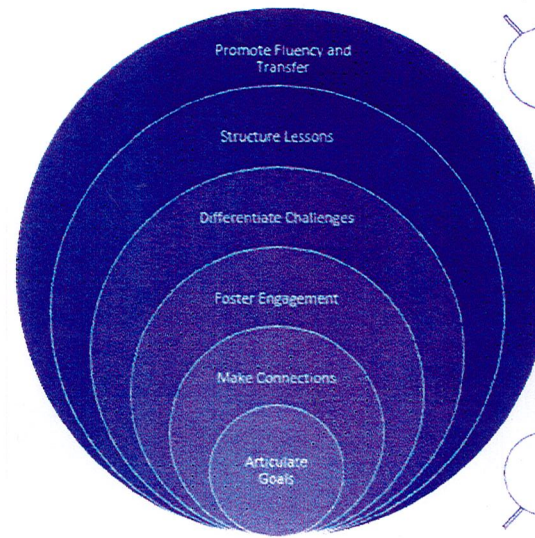
CURRICULUM

- Proficiencies
- Content



APPROACH

- strategies
- inquiry/problem based through cycle
- principles
- resources to support
- differentiation



Challenge: so that students have high expectations of what they can achieve

Explain: so that students acquire new knowledge and skills

Model: so that students know what to do with the knowledge and skills

Question: so that students are made to think with breadth, depth and accuracy

Give Feedback: so that students know how they are doing and how to achieve excellence.

The Disciplinary Literacy of maths

Mathematical literacy is being able to do, understand and apply mathematics, not only in the classroom, but in everyday lives. Ensuring that students are mathematically literate must be a priority. Incorporating reading, writing, listening, speaking and critical thinking in instruction, provides students with opportunities to develop literacy in mathematics while deepening their mathematical proficiencies.

Practices that promote and develop maths literacy:

- Number Talks
- Engagement with Quality Literature
- Authorship of Wordwalls, Anchor Charts
- Reflections in a Maths Journal
- Use of oral and written sentence Stems

Opportunity to share with whole class
(communicate and develop shared and common understandings in maths)

Pose the Problem
(provocation for learning)

Independent Thinking
(thinking and processing time, students doing the work - connecting to strategies)

Number Talks Cycle

Opportunity to share in pairs
(communicating through oral literacy)

Opportunity to document thinking
(communicating in written form using the literacy of mathematics)

Maths Reflection Journal

Purposes: to reflect on and share learning as a mathematician.
What Mrs Rust is looking for: what you know, the strategies you use, the materials you use, the challenges you experience, the success you experience and the connections made between key mathematical ideas.

- Reflection Stems:**
- I have learnt....
 - I was challenged by...
 - I found it helpful to...
 - Something new for me...
 - I was a mathematician by...
 - WOW!
 - I would like to celebrate...
 - I am really improving in...
 - Something tricky for me was...
 - A great strategy is...
 - A handy hint to... is...
 - I practised my skills in...
 - Today I used...
 - Today I discovered...



My Maths Language

Writes _____ Draw _____

