

FAMILY MATHS NIGHT 2024

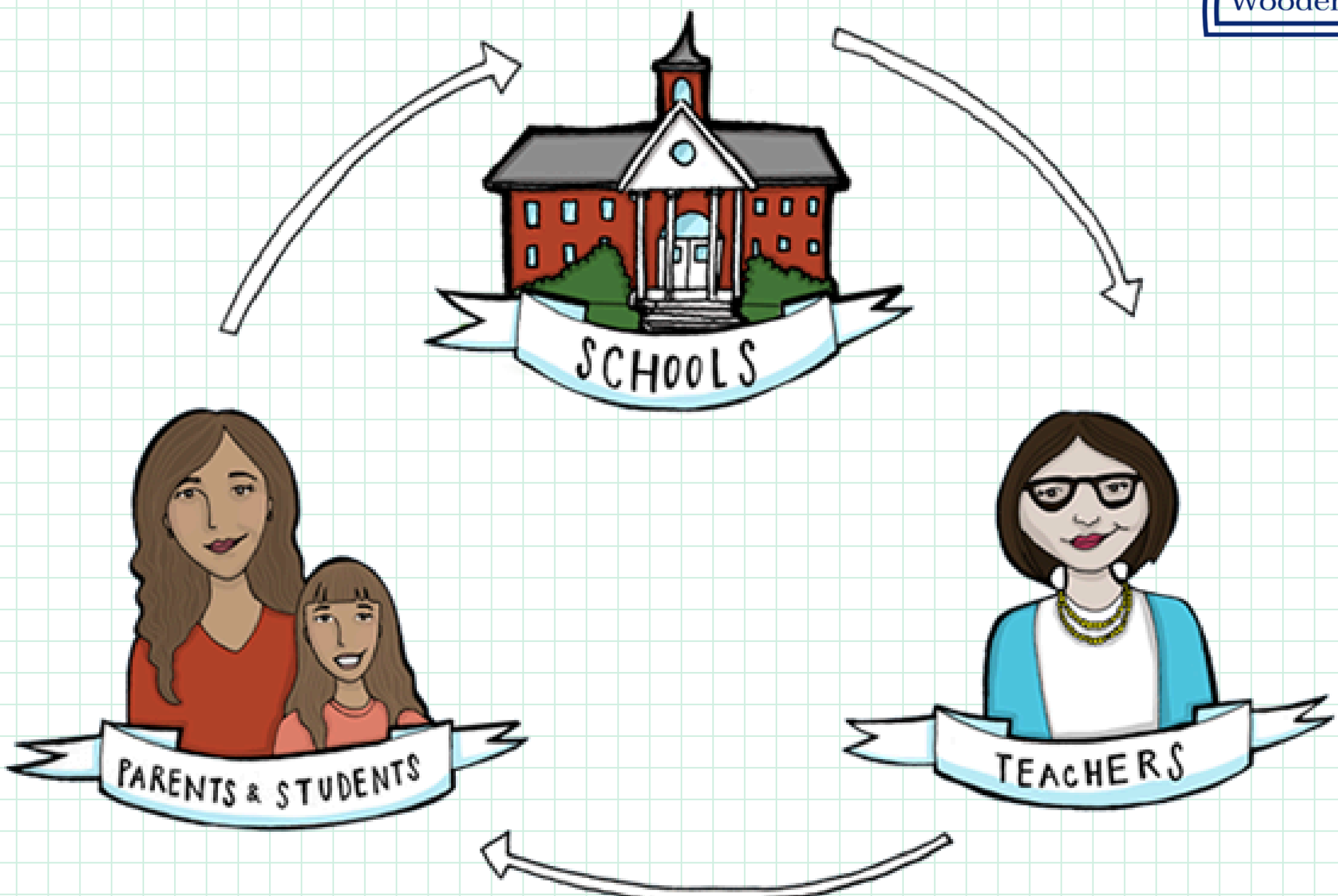
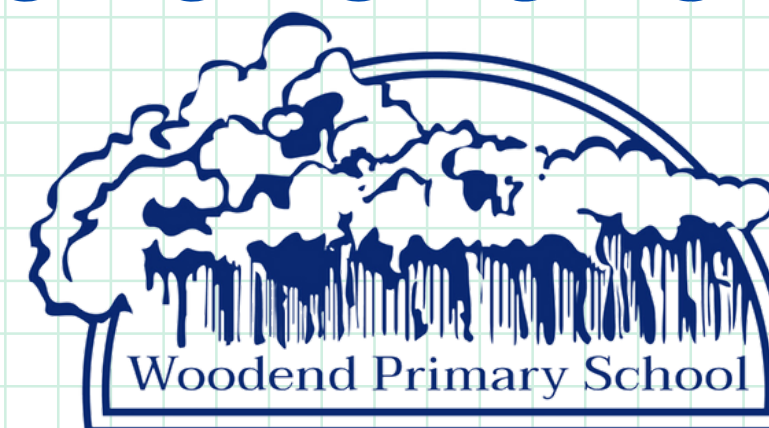


WOMIN-DJI-KA: WELCOME



***We would like to acknowledge the
Dja Dja Wurrung People, the Traditional
Owners of the land on which we are
gathered and pay our respects to their
Elders both past and present.***

THANK YOU



AIMS OF TONIGHT

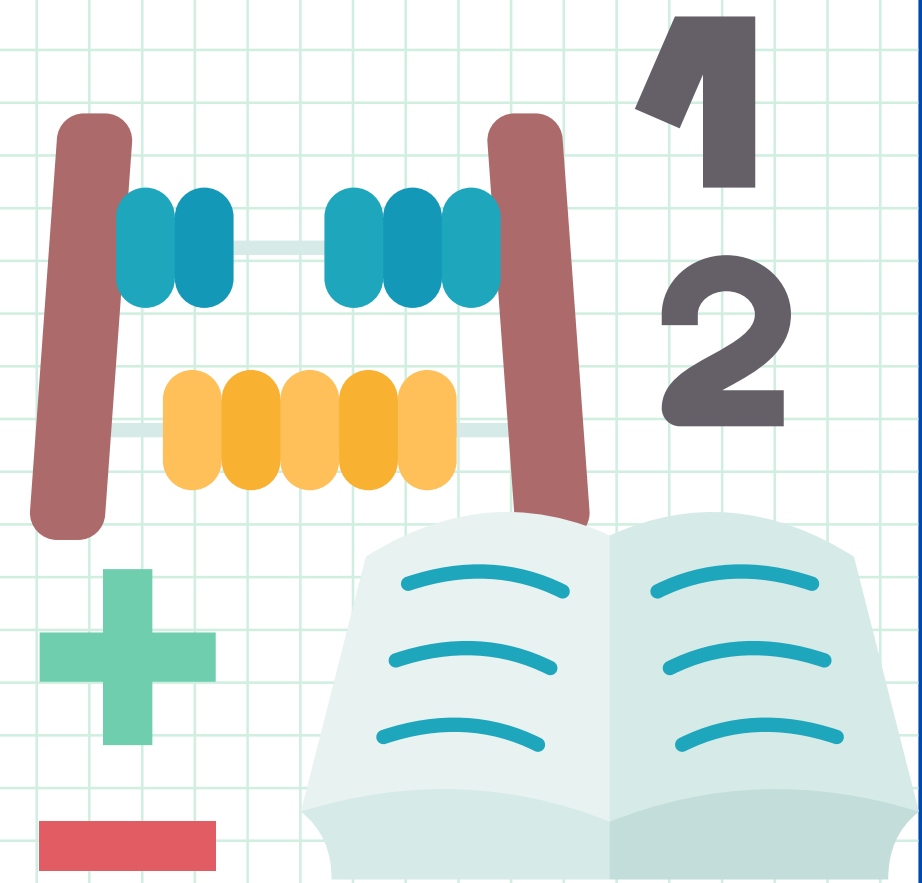
- **Approach to Numeracy Learning**
- **Four Numeracy Proficiencies**
- **Family involvement with Numeracy**
- **Build family-school partnerships**
- **Reinforce what goes on in the classroom**
- **Generate excitement about Numeracy**
- **Support success**
- **Numeracy Curriculum and standards**
- **Ideas and strategies to support Maths**



WHAT IS NUMERACY?

Numeracy is fundamental to a student's ability to learn at school and to engage productively in society.

Numeracy encompasses the knowledge, skills, behaviours and dispositions that students need to use mathematics in a wide range of situations. It involves students recognising and understanding the role of mathematics in the world and having the dispositions and capacities to use mathematical knowledge and skills purposefully (ACARA 2017).



OUR AIMS

We value the explicit teaching of knowledge, skills and understandings that will enable our students to be lifelong numerate learners, mathematical problem solvers and risk takers.

OUR AIM IS FOR ALL STUDENTS TO HAVE AT LEAST 1.25 YEARS OF ACADEMIC GROWTH IN NUMERACY FOR 1 YEAR OF LEARNING.



VICTORIAN CURRICULUM 2.0

SOME OF KEY AIMS:

- **develop useful mathematical and numeracy skills for everyday life and work.**
- **become effective communicators of mathematics who can investigate, represent and interpret situations in their personal and work lives, think critically, and make choices as active, engaged, numerate citizens**
- **develop proficiency with mathematical concepts, skills, procedures and processes, and use them to demonstrate mastery in mathematics as they pose and solve problems, and reason with number, algebra, measurement, space, statistics and probability**
- **develop a positive disposition towards mathematics, recognising it as an accessible and useful discipline to study**



VICTORIAN CURRICULUM 2.0

Strands

The curriculum is organised into 6 interrelated strands. The strands group the content descriptions, to provide both a focus and a clear sequence for the development of related concepts and skills across levels.

The 6 strands are:

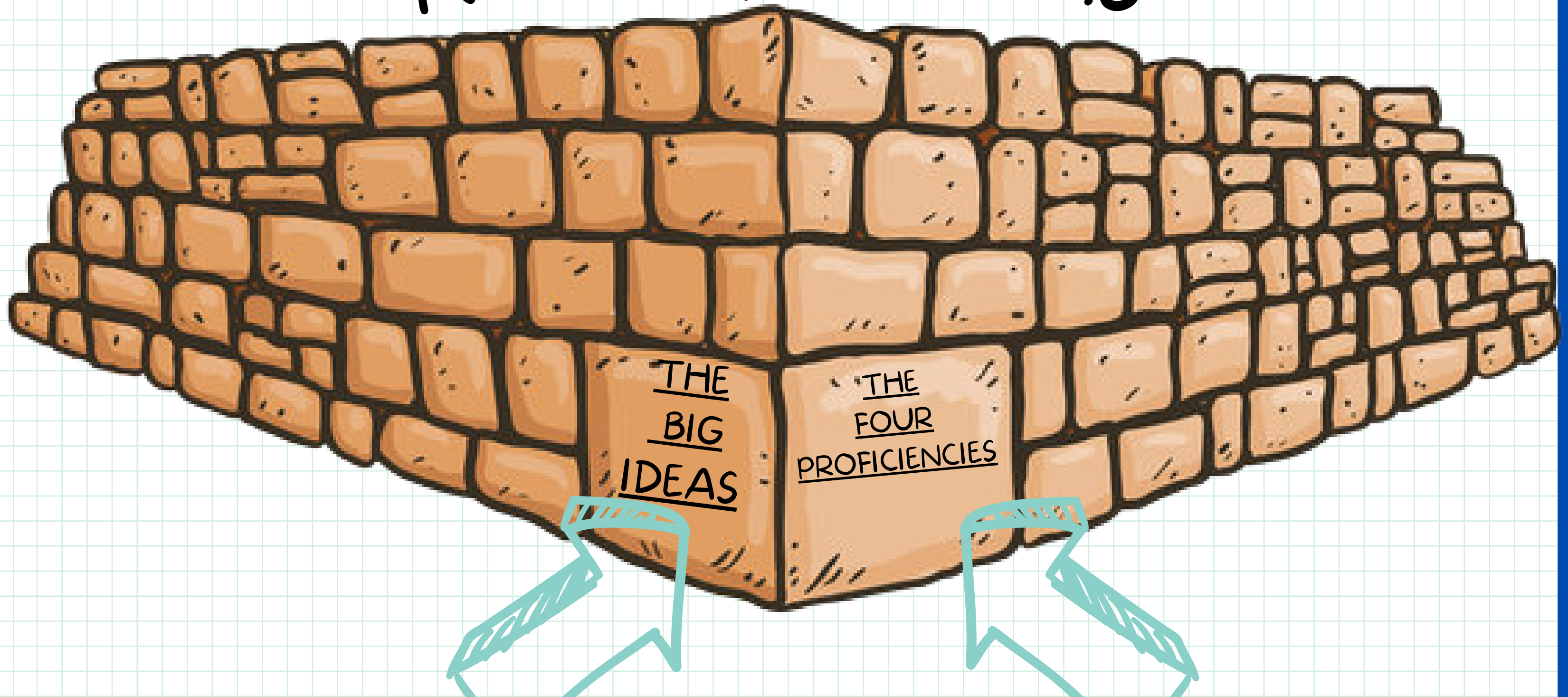
- Number
- Algebra
- Measurement
- Space
- Statistics
- Probability (commencing at Level 3).



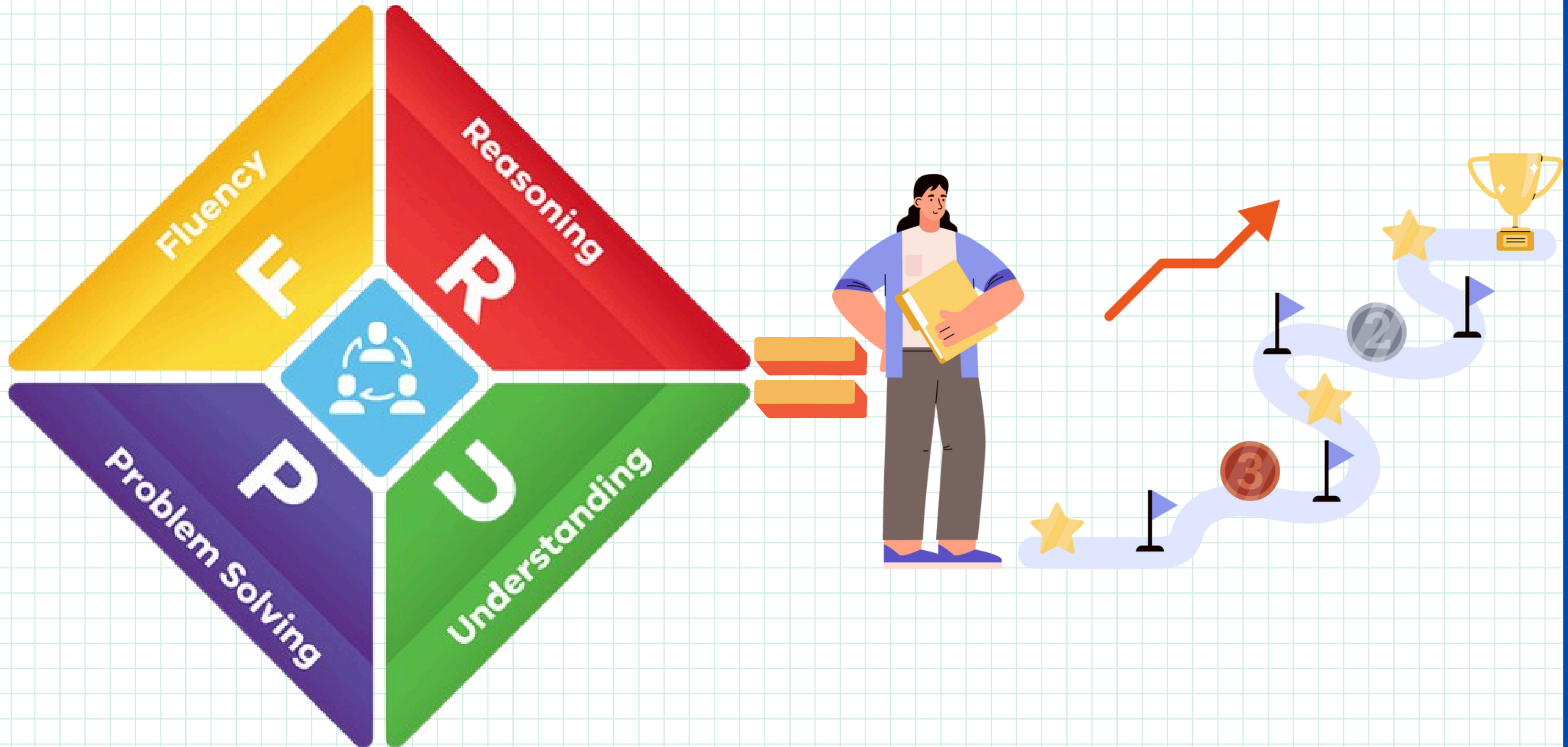
They all work together

SO HOW DO WE ACHIEVE THIS?

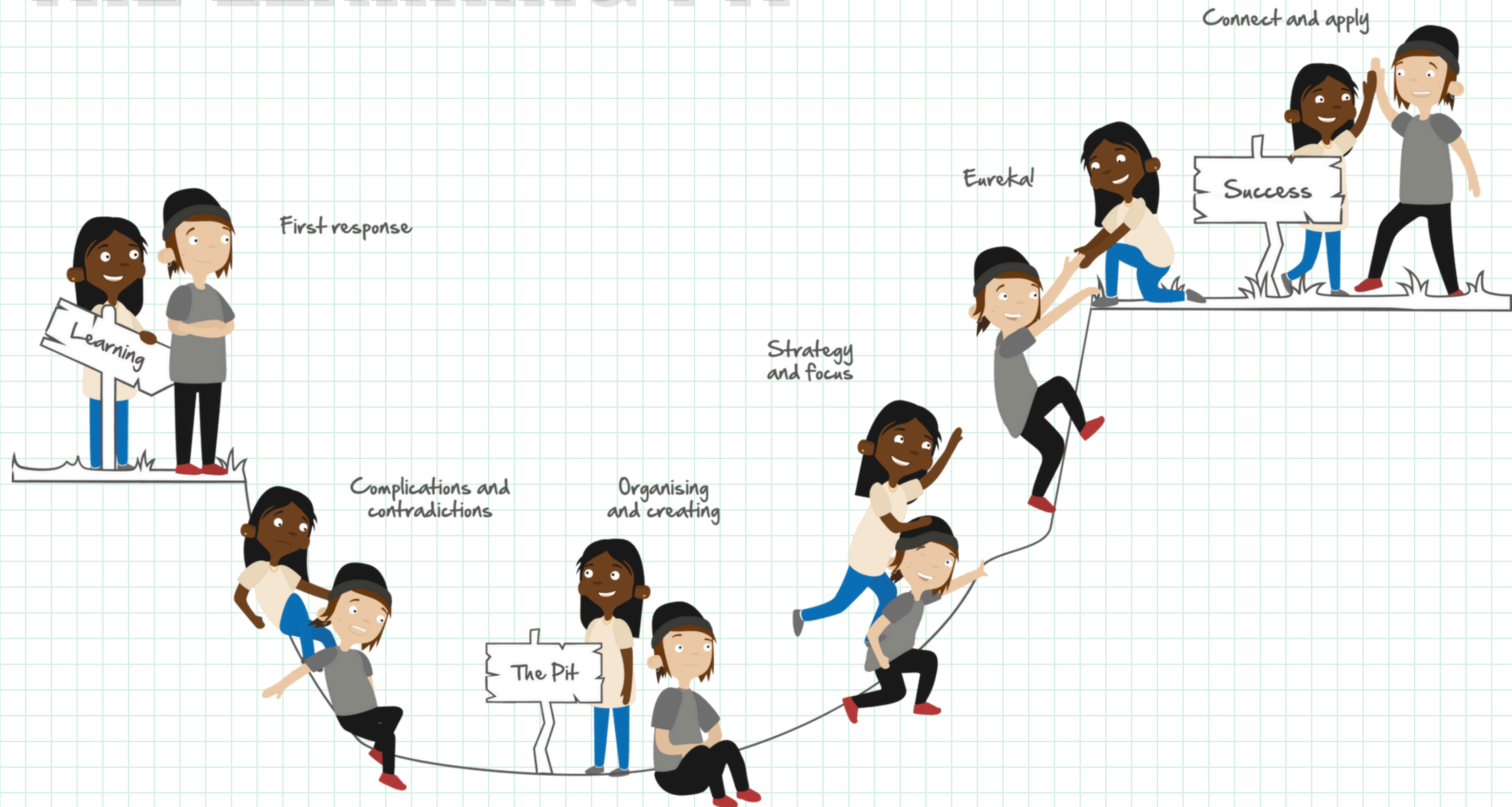
Numeracy at W.P.S



THE FOUR PROFICIENCIES



THE LEARNING PIT



OUR NEW INSTRUCTIONAL MODEL

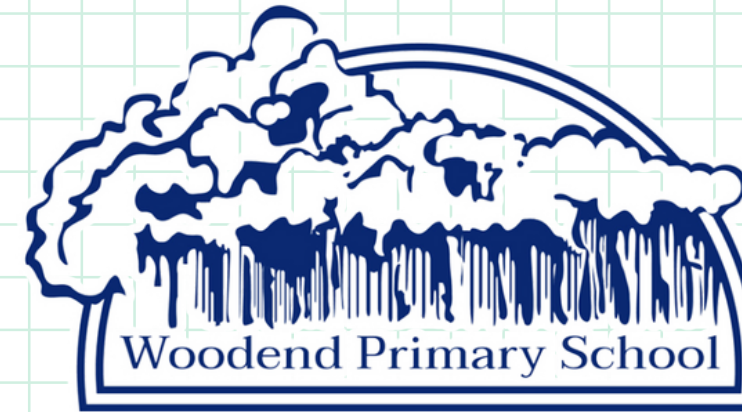


A YouTube video player interface. The video shows a young girl with dark hair, wearing a dark blue jacket with yellow trim, sitting at a desk in a classroom. She is looking towards the camera with a slight smile. In the background, there are whiteboards and a desk with various supplies. A red play button is centered over the video. The video title is "How to help your Grade 1 and 2 students to think like mathematicians".

 How to help your Grade 1 and 2 students to think like mathematicians  Share

Watch on  YouTube

OUR NEW INSTRUCTIONAL MODEL



- Supports the idea that students learn best when they work on problems that they do not yet know how to solve.
- Peter Sullivan's research shows that many students do not fear challenges in mathematics, but welcome them.
- Rather than having teachers instruct them, these students prefer to work out solutions for themselves.

WE WANT TO CHALLENGE AND SUPPORT



Peter Sullivan - Challenge and support



Share



Watch on  YouTube



THE BENEFITS

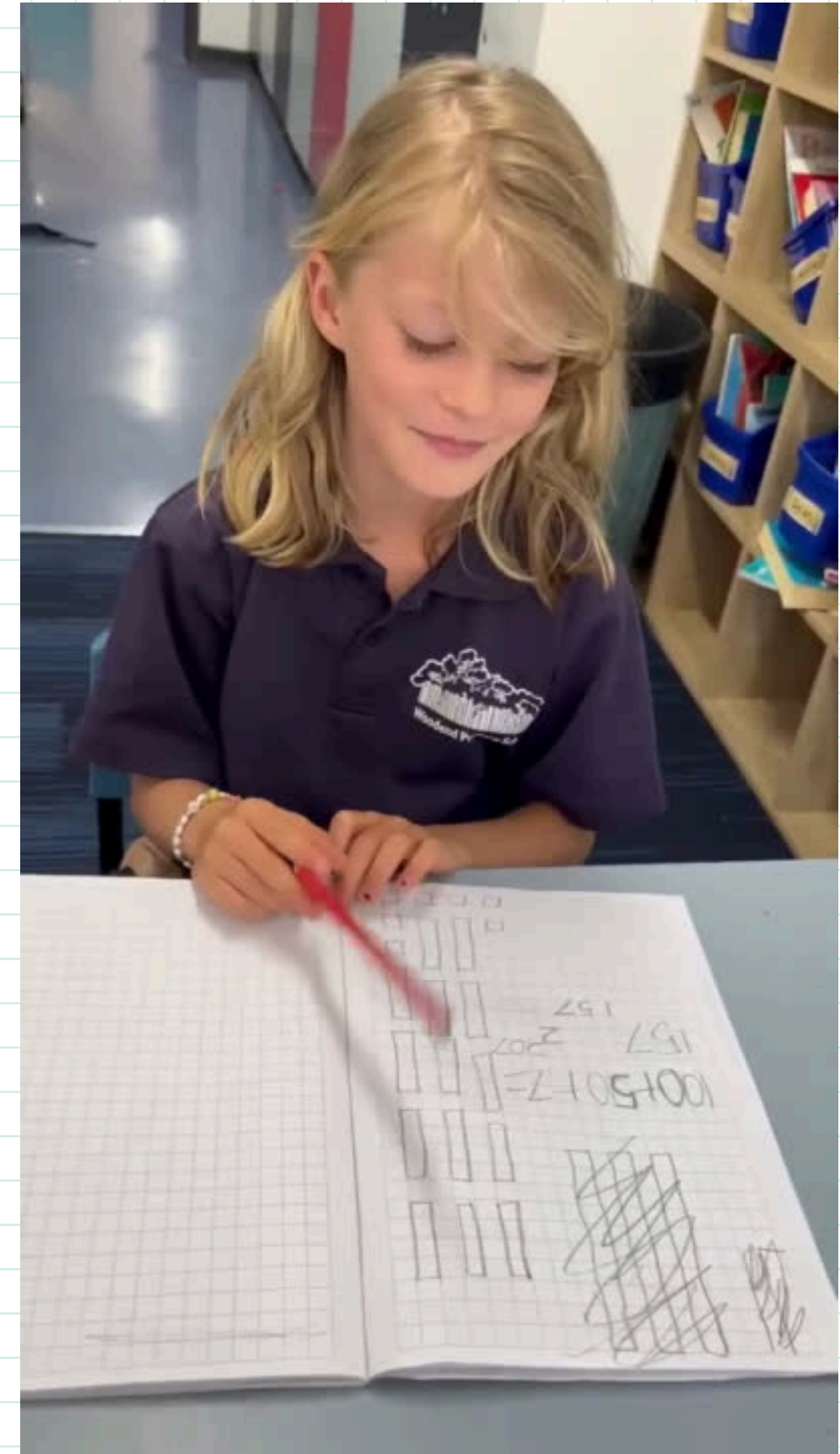
- 1. Boosts problem-solving and critical thinking skills**
- 2. Develops a deeper understanding of mathematical concepts**
- 3. Encourages students to think creatively about solutions**
- 4. Allows students to learn at their own pace**
- 5. Improves student motivation and engagement**
- 6. Fosters a positive attitude towards maths**
- 7. Promotes collaboration among students**
- 8. Inspires higher-order thinking**



Education is not
the learning of
facts, but the
training of the mind
to think

- Albert Einstein

THE BENEFITS



HOW CAN YOU HELP?

- **Be positive about maths. Try not to say things like "I can't do maths" or "I hated maths at school" - your child may start to think like that themselves.**
- **Point out the maths in everyday life. Include your child in activities involving numbers and measuring, such as shopping, cooking and travelling.**
- **Praise your child for effort rather than for being "clever". This shows them that by working hard, they can always improve.**



SOME GO TO QUESTIONS

GETTING STARTED

What do you know?
What do you need to find out?

How could you begin?
Are there words you do not understand?

PROMOTING REASONING

How can you organize the information?
Can you make a prediction?

Does that always work?
If you broke this into parts, what would the parts be?

COMPREHENSION

What is this problem asking?
Can you reword that in simpler terms?

What should you do next?
What do you know about this part?

RESTARTING

How could you make a diagram of the problem?
Is there anything you overlooked?

Where can you find the information you need?
Did your teacher give you an example to check?

REFLECTING

Has the question been answered?
Can you convince me that the answer makes sense?

What strategy did you try that did not work?
Can your explanation be written more clearly?

PERSEVERING

Is there another way you could try this?

Do you see any patterns or relationships you can use?

USEFUL PLACES FOR RESOURCES



Woodend Primary School

**NUMERACY
ONLINE
RESOURCES**

1 2 3 4

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1 2 3 4

1 2 3 4

**1 2 Numeracy
3 4 Guide**



Love Maths

**Dr Paul
Swan PhD**
Excellence in Mathematics

**math
Antics**



NUMBEROCK

THE MATHEMATICAL
ASSOCIATION OF VICTORIA

Khan Academy

nrich

PLEASE DON'T FORGET YOUR RESOURCES

+ MORE TO COME ON COMPASS



Woodend Primary School

NUMERACY
ACTIVITIES TO
TRY AT HOME
2024

The poster features a yellow background with a white cloud-like shape at the top containing the school logo. Below the logo, the text 'NUMERACY ACTIVITIES TO TRY AT HOME 2024' is written in blue. The bottom section shows a group of children playing with large numbers (1-9) and mathematical symbols (+, -, x, ÷). There are also dice, playing cards, and a calculator.

Woodend Primary School

NUMERACY
PROBLEM
SOLVING
TASKS

I'm a problem solver

Mistakes help me grow

I try different strategies

The poster has a purple background with a white cloud-like shape at the top containing the school logo. The text 'NUMERACY PROBLEM SOLVING TASKS' is written in large, bold, blue letters. Below this, three blue speech bubbles contain the phrases 'I'm a problem solver', 'Mistakes help me grow', and 'I try different strategies'. The background is decorated with various mathematical symbols like plus, minus, multiplication, and division signs, as well as geometric shapes like a sphere and a cylinder.

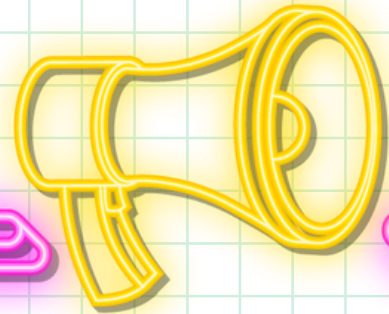
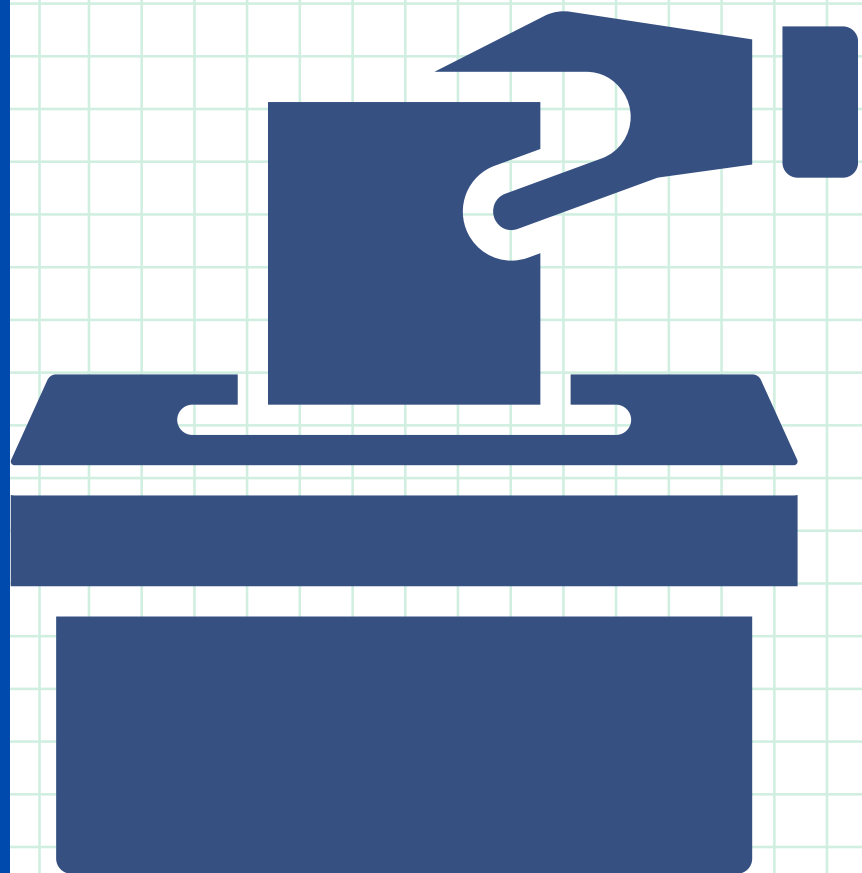
Woodend Primary School

NUMERACY
ONLINE
RESOURCES

The poster has an orange background with a white cloud-like shape at the top containing the school logo. The text 'NUMERACY ONLINE RESOURCES' is written in blue. Below the text, there is an illustration of a girl sitting on the floor using a laptop. The background is decorated with mathematical symbols (+, -, x, ÷) and icons of a tablet, a laptop, and a smartphone.

ESTIMATION PRIZE PACKS

**Work it out
and put in
an entry**



**Winners will be
announced at the
end of tonight**



ACTIVITY LOCATIONS

FOUNDATION ACTIVITIES- PCL & PBS

YEAR 1/2 ACTIVITIES- ALL THE 1/2 CLASSES

YEAR 3 ACTIVITIES- 3AD & 3SQ CLASSROOMS

YEAR 4 ACTIVITIES- 4LS & SPARE PORTABLE

YEAR 5/6 ACTIVITIES- 5/6 PORTABLES-AT THE FRONT



