

SUPPORTING OUR K-9 STUDENTS - MATHEMATICS AND NUMERACY

WESTMOUNT SCHOOL COUNCIL MEETING
NOVEMBER 2023
SHELLY READ



$$3n + 2 = 17$$

FSD AREAS OF FOCUS

K-6 NEW CURRICULUM

AT HOME SUPPORTS



CURRENT FSD

AREAS OF FOCUS

- Mindset Matters
- Number Flexibility and Fluency
- Balanced Instruction
- Developing Mathematicians
- Assessment and Evaluation

MINDSET MATTERS

Each learner develops and promotes a positive mathematical disposition; growth mindset is evident in language; enthusiasm and confidence is visible through actions and experiences in and beyond the classroom; supported practice and positive feedback is used to monitor progress and improve learning



NUMBER FLEXIBILITY AND FLUENCY

Learners build accuracy and automaticity with number by developing flexible and efficient thinking; the use of concrete objects, visual models, and symbolic representations connects the body and mind; understanding of number skills develops from simple to more complex



BALANCED INSTRUCTION

Learners build conceptual understanding, procedural fluency, and declarative knowledge over time using a variety of research based, engaging tools and strategies in order to achieve the goals of mathematics instruction, transfer their learning to relevant situations, and embrace lifelong learning



DEVELOPING MATHEMATICIANS

Learning is authentic, meaningful, and relates to the learner's background knowledge and life experiences; concepts are connected and deepened as they are revisited over time; novice learners skillfully transfer their understanding beyond the skill, lesson or subject to develop and demonstrate numeracy



























































ASSESSMENT AND EVALUATION

Quality, ongoing assessment is evident within instruction and used to guide instruction and improve student learning; deep understanding is demonstrated using fair, accurate and valid measures that incorporate the math processes; various reliable forms of assessment are used to evaluate student learning and achievement



NEW ALBERTA K-6 MATHEMATICS CURRICULUM

- Organizing Ideas
- Learning Outcomes
 - ‘KUSPS’
 - knowledge
 - understanding
 - skills and procedures

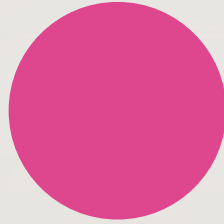
SUBJECT INTRODUCTION	ORGANIZING IDEAS					
K	1	2	3	4	5	6
 Number: Quantity is measured with numbers that enable counting, labelling, comparing, and operating.						
 Algebra: Equations express relationships between quantities.						
 Geometry: Shapes are defined and related by geometric attributes.						
 Coordinate Geometry: Location and movement of objects in space can be communicated using a coordinate grid.						
 Measurement: Attributes such as length, area, volume, and angle are quantified by measurement.						
 Patterns: Awareness of patterns supports problem solving in various situations.						
 Time: Duration is described and quantified by time.						
 Statistics: The science of collecting, analyzing, visualizing, and interpreting data can inform understanding and decision making.						

HOW CAN I BEST SUPPORT AT HOME



Experience:

- family games
- thinking puzzles
- math in the media
- download free apps



Interest:

- let them lead
- ask about vocabulary
- discuss methods
- communication



Application:

- real world learning
- money, measurement, time, cooking
- encourage estimation
- use objects and visuals

FURTHER
WONDERS?



THANK YOU
FOR YOUR
ENGAGEMENT
AND SUPPORT
OF STUDENT
LEARNING!

$2(3+2)$

