NUMERACY FRAMEWORK

Mathematics is the set of skills, knowledge and processes required to engage with the curricular competencies and content areas. Numeracy is the ability to understand and apply mathematical concepts, processes and skills to solve problems in a variety of contexts.



BIG IDEAS

Students will understand mathematicians:

-Are curious to find meaning and think critically
-Appreciate how the number system works
-Are confident, flexible and fluent with numbers
-Uncover patterns within mathematics and the
real world

-High yield routines
-Flexible groupings
-Explicit and Intentional Planning
(model, guided practice,
independent exploration and
practice)

-Oral language experiences (number talks, collaborative problem-solving, etc.)

CONCRETE

INSTRUCTIONAL

PRACTICES

PICTORIAL

CURRICULAR COMPETENCIES

What students will be able to do: (<u>Mathematical Comprehension</u>) -Reasoning and analyzing

-Understanding and solving
-Communicating and representing
-Connecting and reflecting

CURRICULAR CONTENT

What students will know (foundational skills):
-Grade specific learning standards
(e.g. patterning, number sense, place value, computational fluency, measurement, geometry, financial literacy)

-Curricular content determined by student assessments and grade level



EXECUTIVE FUNCTION SKILLS

- Working memory
- Task initiation
- Emotional control
- Organization
- Self-control
- Self-monitor
- Flexibility
- Planning & time management