

Literature

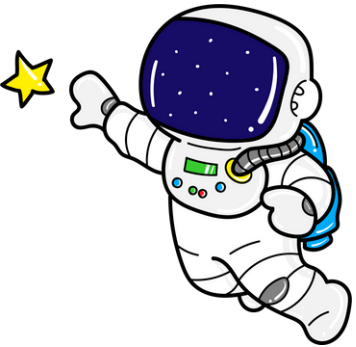
Group B - Session 1

3rd - 5th Grade

June 10 - 21

AM Program 9:00 - 12:00

Course Overview: Dive into a well-known chapter book within the session's theme and discuss what makes the story timeless and great. We will explore the novel's themes through critical analysis and discussions, culminating in weekly essays. The class will also include vocabulary and thematic study.



SPACE EXPLORER

- Go beyond the galaxy to discover the dangers and wonders of the universe
- Discuss the potential of space travel and one's experience through such a journey



Literature

Group B - Session 2

3rd - 5th Grade

June 24 - July 5

AM Program 9:00 - 12:00

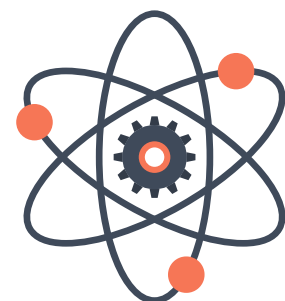
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INVENTORS & THEIR INVENTIONS

- Walk in the shoes of history's greatest inventors



- Live the triumphs and struggles of the likes of Nikolai Tesla and Alan Turning



Literature

Group B - Session 3

3rd - 5th Grade

July 8 - 19

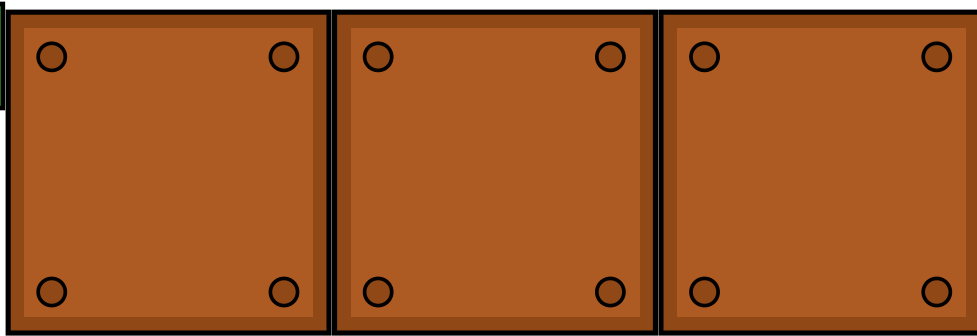
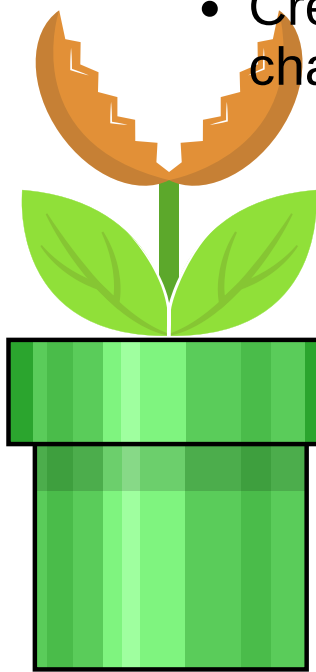
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VIDEO GAME LORE

- Explore the olden lore of our most beloved video games such as Zelda and Five Nights at Freddie's
- Create your own detailed world to challenge a brave explorer



Literature

Group B - Session 4

3rd - 5th Grade

July 22 - August 2

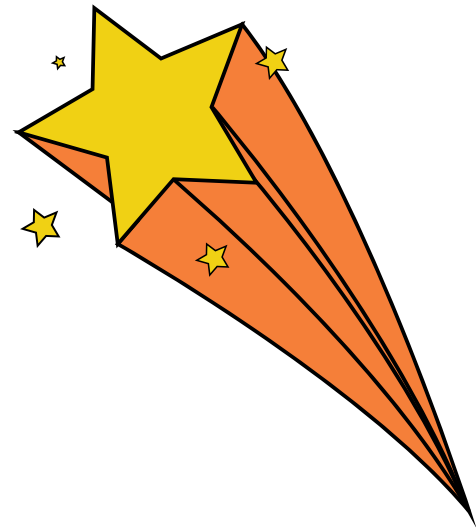
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SUPERHEROES THROUGHOUT HISTORY

- Explore historical and fictional heroes and heroines like Prometheus and Mulan
- Discuss their qualities, the challenges they face, and the impact they had on society



Math Bootcamp Group B - Session 1


3rd - 5th Grade

June 10 - 21

PM Program 1:30 - 4:30

- Revolutionize the traditional class paradigm
- Integrate key concepts seamlessly
- Progressive course structure for deeper understanding
- Engaging exercises to ignite learning
- Build a robust middle school foundation in just eight weeks

WHOLE NUMBERS BEYOND THREE DIGIT (ARITHMETIC OPERATIONS & WORD PROBLEM)



carry over

1 1

5 6 7 8

+ **1 2 3 4**

6 9 1 2

→ **sum**

addends

Multi-digit Multiplication

Step 1:

$$\begin{array}{r} 324 \\ \times 46 \\ \hline 1944 \end{array}$$

Step 2:

$$\begin{array}{r} 324 \\ \times 46 \\ \hline 1944 \\ + 12960 \\ \hline 14904 \end{array}$$

Math Bootcamp

Group B - Session 2

3rd - 5th Grade

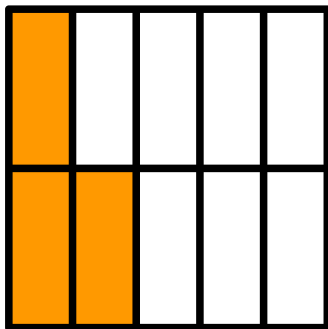
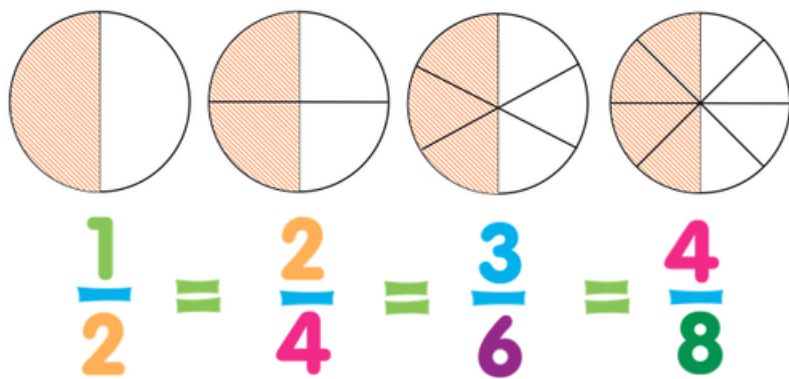
June 24 - July 5

PM Program 1:30 - 4:30

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FRACTIONS MASTERY

(ARITHMETIC OPERATIONS & WORD PROBLEMS)



Multiplying Fractions

STEP 1 STEP 2 STEP 3

$$\frac{3}{4} \times \frac{2}{5} = \frac{3 \times 2}{4 \times 5} = \frac{6}{20} \leftarrow \text{Simplify?}$$

Math Bootcamp

Group B - Session 3

3rd - 5th Grade

July 8 - 19

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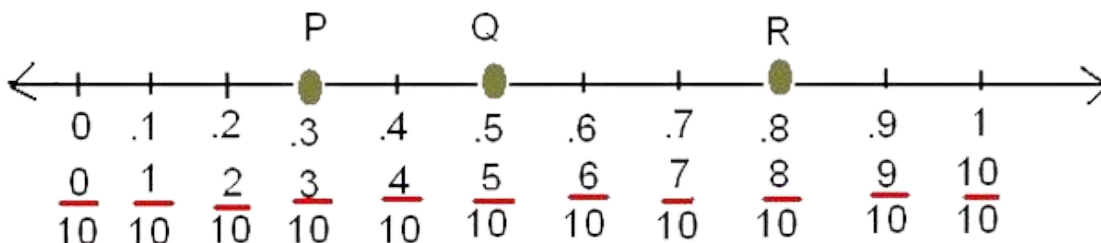
DECIMAL ARITHMETIC (OPERATIONS & REAL-WORLD APPLICATIONS)

Decimal Representation



$$\begin{array}{r}
 3.1 \\
 \times 5.9 \\
 \hline
 279 \\
 +155 \\
 \hline
 1829
 \end{array}
 \quad \left| \quad
 \begin{array}{r}
 3.1 \times 5.9 \\
 \uparrow \quad \uparrow \\
 ① \quad ②
 \end{array}
 \quad \left| \quad
 \begin{array}{r}
 1829 \\
 18.29 \\
 \leftarrow \leftarrow \\
 ② \quad ①
 \end{array}$$

So, $3.1 \times 5.9 = 18.29$



Math Bootcamp

Group B - Session 4

3rd - 5th Grade

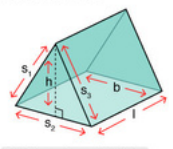
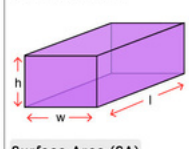
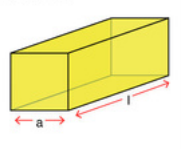
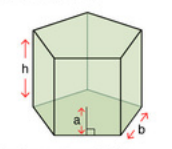
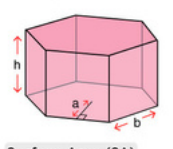
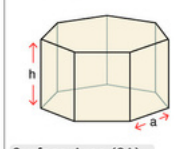
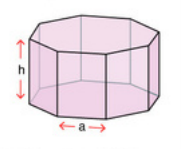
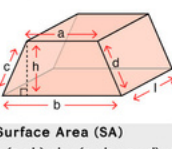
July 22 - August 2

PM Program 1:30 - 4:30

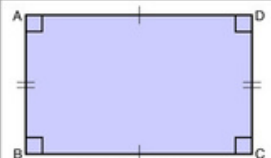
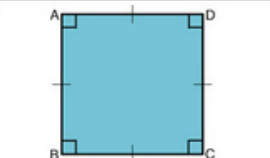
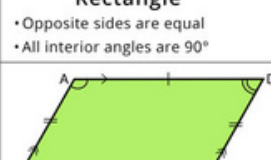
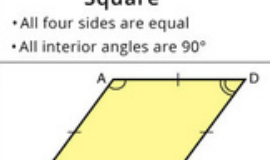
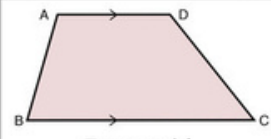
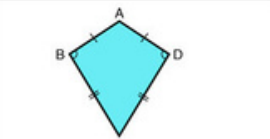
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GEOMETRIC CONCEPTS QUADRILATERALS AND CUBOIDS (AREA & VOLUME)

Surface Area of Prisms

<p>Triangular</p>  <p>Surface Area (SA) $= b \times h + (s_1 + s_2 + s_3) \times l$</p> <p><i>here,</i> $s_1, s_2, \& s_3 =$ base edges, $b = s_1, l =$ length, $h =$ height</p>	<p>Rectangular</p>  <p>Surface Area (SA) $= 2(lw + wh + lh)$</p> <p><i>here,</i> $l =$ length, $w =$ width, $h =$ height</p>	<p>Square</p>  <p>Surface Area (SA) $= 2a^2 + 4al$</p> <p><i>here,</i> $a =$ base edge, $l =$ length</p>	<p>Pentagonal</p>  <p>Surface Area (SA) $= 5ab + 5bh$</p> <p><i>here,</i> $a =$ apothem, $b =$ base edge, $h =$ height</p>
<p>Hexagonal</p>  <p>Surface Area (SA) $= 6ab + 6bh$</p> <p><i>here,</i> $a =$ apothem, $b =$ base edge, $h =$ height</p>	<p>Heptagonal</p>  <p>Surface Area (SA) $= \frac{7}{2} \times a^2 \times \cot(\frac{\pi}{7}) + 7ah$</p> <p><i>here,</i> $a =$ base edge, $h =$ height, $n = 180^\circ$</p>	<p>Octagonal</p>  <p>Surface Area (SA) $= 4(1 + \sqrt{2})a^2 + 8ah$</p> <p><i>here,</i> $a =$ base edge, $h =$ height</p>	<p>Trapezoidal</p>  <p>Surface Area (SA) $= (a + b) \times h + (a + b + c + d) \times l$</p> <p><i>here,</i> $a =$ long base edge, $b =$ short base edge, $c \& d =$ slant base edges, $h =$ height, $l =$ length</p>

Types of Quadrilaterals

 <p>Rectangle</p> <ul style="list-style-type: none">• Opposite sides are equal• All interior angles are 90°	 <p>Square</p> <ul style="list-style-type: none">• All four sides are equal• All interior angles are 90°
 <p>Parallelogram</p> <ul style="list-style-type: none">• Opposite sides are equal and parallel• Opposite interior angles are equal	 <p>Rhombus</p> <ul style="list-style-type: none">• All four sides are equal• Opposite interior angles are equal
 <p>Trapezoid</p> <ul style="list-style-type: none">• One pair of opposite sides is parallel	 <p>Kite</p> <ul style="list-style-type: none">• Two pairs of adjacent sides are equal• One pair of opposite interior angles are equal