PISCATAWAY TOWNSHIP SCHOOLS

WELCOME

To the

Grades 6-8

PARENT WORKSHOP

SPECIAL EDUCATION BREAKOUT ROOM

YOU + ME = INSPIRE
PISCATAWAY TOWNSHIP SCHOOLS

PISCATAWAY TOWNSHIP SCHOOLS
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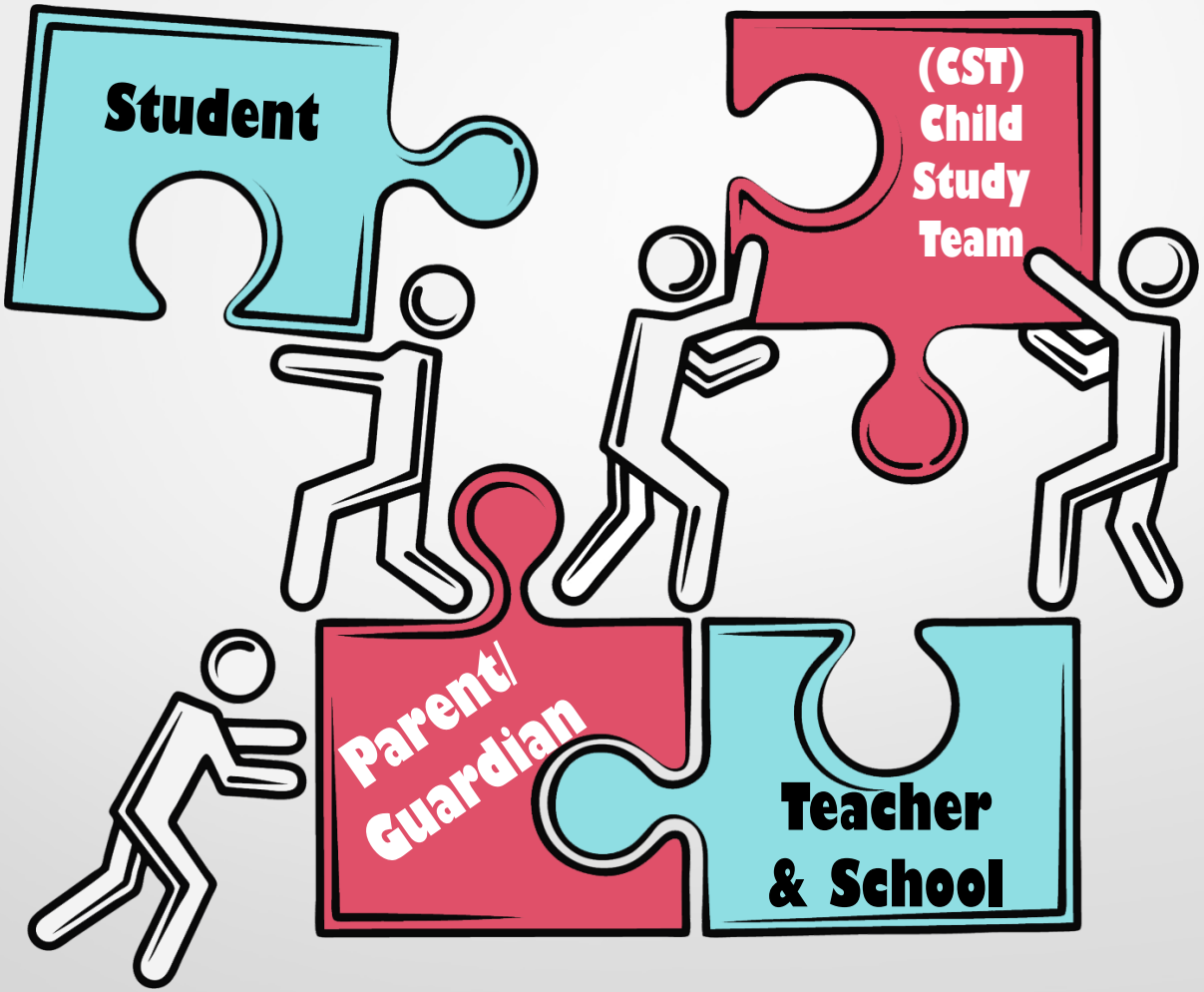
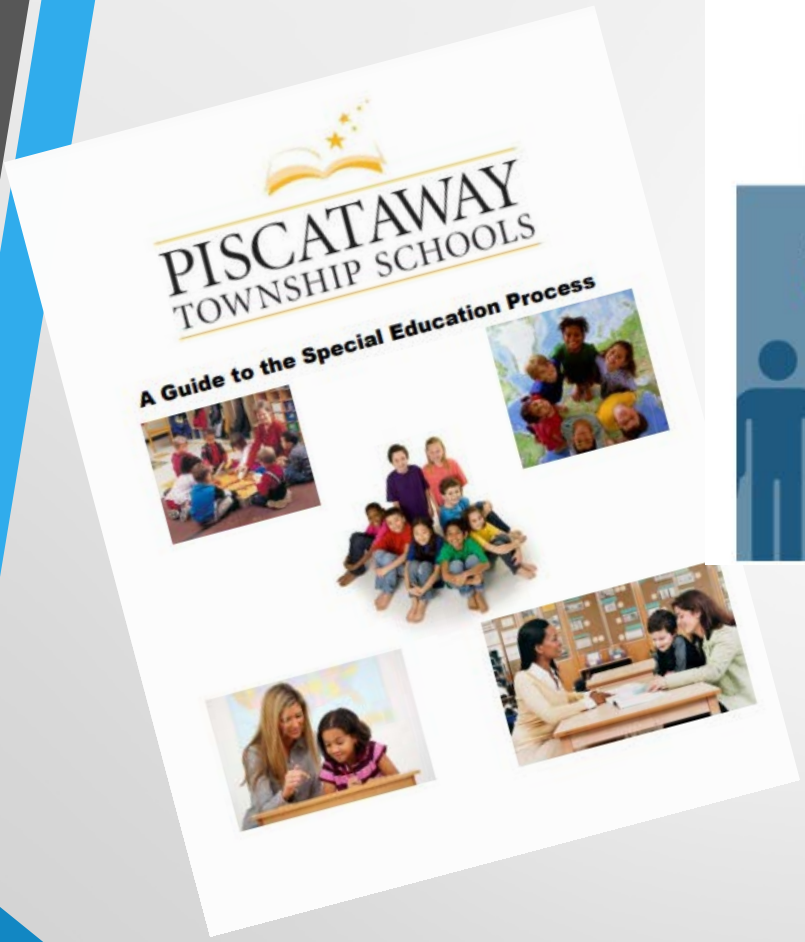
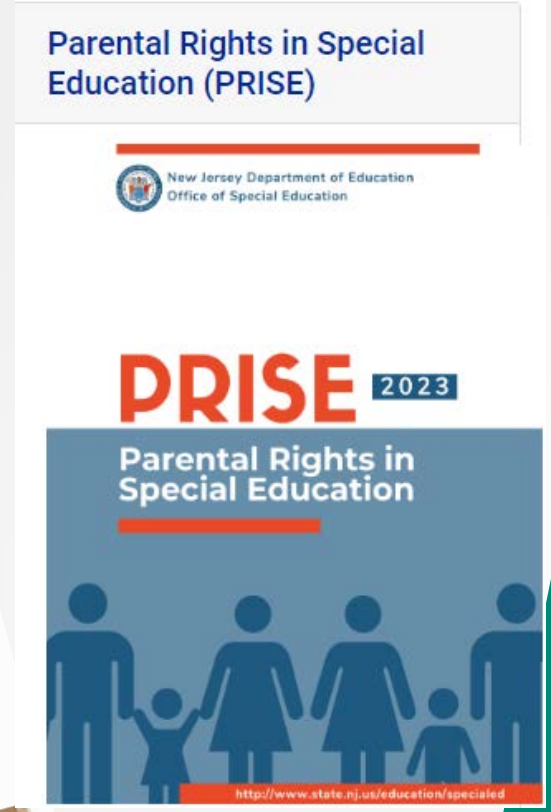
PARENT/GUARDIAN – SCHOOL RELATIONSHIP



Resources:





The NEW Parental Rights in Special Education (anticipated in 2023)

https://www.nj.gov/education/specialed/parents/index.shtml

(Revised 2019)

https://www.nj.gov/education/specialed/parents/docs/RevisedParentalRights(PRISE).pdf

MATH CURRICULUM

Grade 6	Grade 7	Grade 8
Unit 1 – Area and Surface Area	Unit 1 – Scale Drawings	Unit 1 – Rigid Transformations and Congruence
Unit 2 – Introducing Ratios	Unit 2 – Proportional Relationships	Unit 2 – Dilations, Similarities and Introducing Slope
Unit 3 –Unit Rates and Percentages	Unit 3 – Measuring Circles	Unit 3 – Proportional and Linear Relationships
Unit 4 – Dividing Fractions	Unit 4 - Percentages	Unit 4 – Linear Equations and Linear Systems
Unit 5 – Decimal Arithmetic	Unit 5 – Negative and Positive Numbers	Unit 5 – Functions and Volume
Unit 6 – Expressions and Equations	Unit 6 – Expressions and Equations	Unit 6 - Associations in Data
Unit 7 – Positive and Negative Numbers	Unit 7 – Angles, Triangles, and Prisms	Unit 7 – Exponents and Scientific Notation
Unit 8 – Describing Data	Unit 7 Probability and Sampling	Unit 8 – The Pythagorean Theorem and Irrational Numbers

desmos classroom

Using Phenomena to teach Next Generation Science Standards

The Cone of Learning (The Learning Pyramid)

I see and I forget.
I hear and I remember.
I do and I understand.
— Confucius

After 2 weeks, we tend to remember ...

- 10% of what we READ
- 20% of what we HEAR
- 30% of what we SEE
- 50% of what we SEE & HEAR
- 70% of what we SAY
- 90% of what we SAY & DO

Passive

Active

Source: Edgar Dale (1969)

7th sense:

Proprioception

(the sense of where you are compared to your surroundings)

Examples of our proprioception in practice include being able to:

- **clap our hands together with our eyes closed,**
- **write with a pencil and apply with correct pressure,**
- **navigate through a narrow space.**
- **judge distances so we don't run into things**

HOW DO WE TEACH?

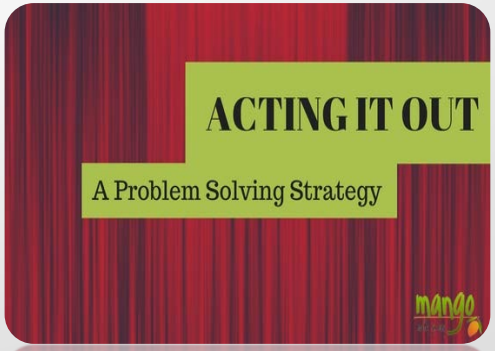
Use of manipulatives

Drawing a picture of the problem

Learning from every angle.

Using a highlighter to identify needed info.

Color coding



Using sports or games to act out or visualize a problem

Original Problem

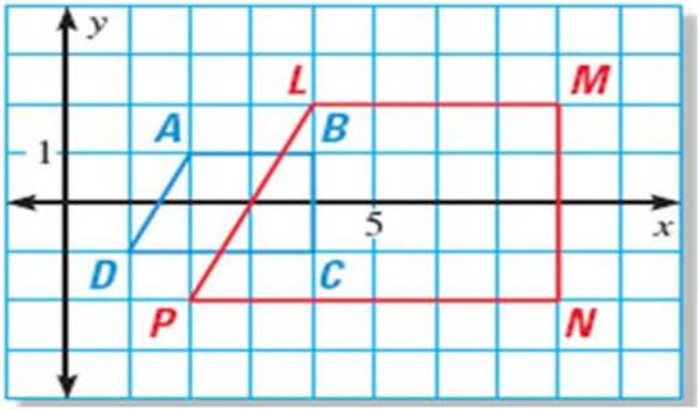
EXAMPLE 1 Draw a dilation with a scale factor greater than 1

Draw a dilation of quadrilateral $ABCD$ with vertices $A(2, 1)$, $B(4, 1)$, $C(4, -1)$, and $D(1, -1)$. Use a scale factor of 2.

SOLUTION

First draw $ABCD$. Find the dilation of each vertex by multiplying its coordinates by 2. Then draw the dilation.

$$
\begin{aligned}
(x, y) &\longrightarrow (2x, 2y) \\
A(2, 1) &\longrightarrow L(4, 2) \\
B(4, 1) &\longrightarrow M(8, 2) \\
C(4, -1) &\longrightarrow N(8, -2) \\
D(1, -1) &\longrightarrow P(2, -2)
\end{aligned}
$$



Revised Problem

EXAMPLE 1 Draw a dilation with a scale factor greater than 1

Draw a dilation of quadrilateral $ABCD$ with vertices $A(2, 1)$, $B(4, 1)$, $C(4, -1)$, and $D(1, -1)$. Use a scale factor of 2.

SOLUTION

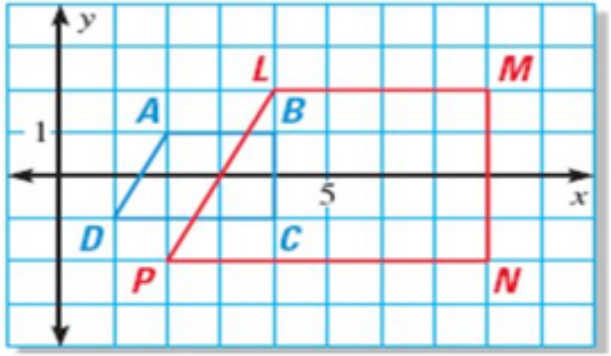
1) First draw ***ABCD***

2) ***Find the dilation of point B (multiply by the scale factor)***

3) ***Plot or locate that point and label it M***

$$(x, y) \longrightarrow (2x, 2y)$$

$$B(4, 1) \longrightarrow M(8, 2)$$



Then continuing with remaining points.

Combining Like Terms in an Equation

Typical problem

$$7x - 2 - 5x + 8 = 30$$

Or

$$7x-2-5x+8 = 30$$

Revised problem

$$7x \ -2 \ -5x \ +8 = 30$$

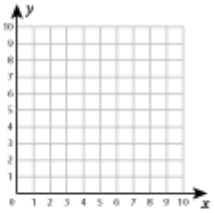
Original

1st quadrant: S1

Drawing Shapes on a Coordinate Grid

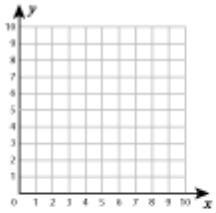
Plot the point and join them in the given order. Complete the figure by connecting the end points. Identify the shape formed.

1) (7, 8), (9, 6), (8, 3), (6, 3), (5, 6)



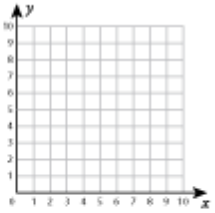
Shape: _____

2) (5, 8), (9, 4), (5, 1)



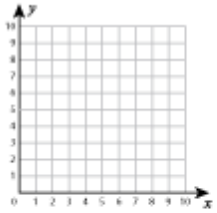
Shape: _____

3) (1, 6), (4, 9), (4, 0), (1, 3)



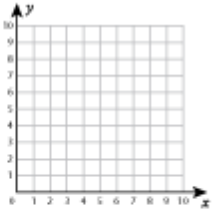
Shape: _____

4) (4, 6), (9, 6), (8, 3), (3, 3)



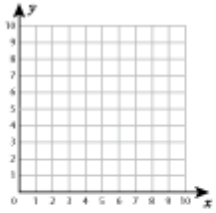
Shape: _____

5) (4, 8), (7, 8), (7, 5), (4, 5)



Shape: _____

6) (2, 7), (9, 7), (9, 4), (2, 4)



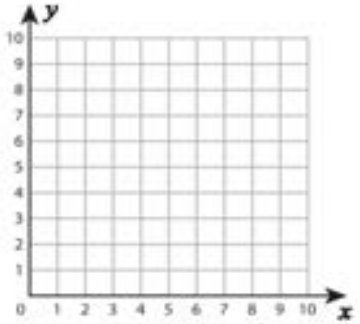
Shape: _____

Revised

Drawing Shapes on a Coordinate Grid

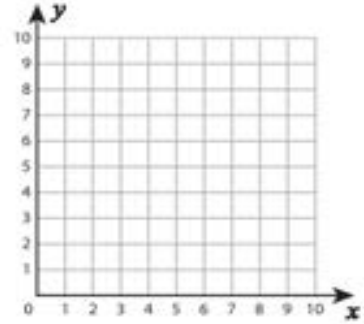
Plot the point and join them in the given order. Complete the figure by connecting the end points. Identify the shape formed.

1) (7, 8), (9, 6), (8, 3), (6, 3), (5, 6)



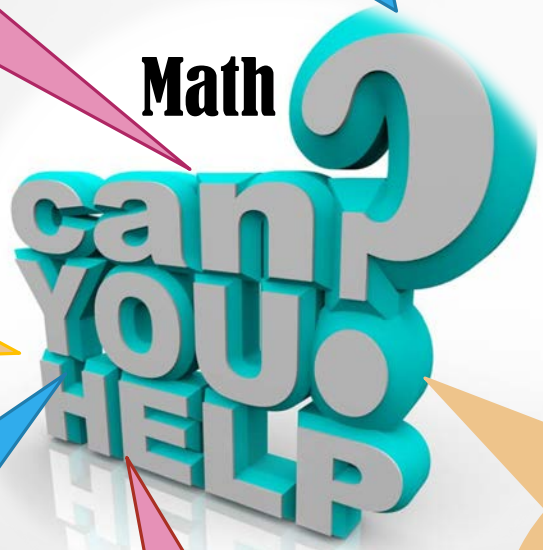
Shape: _____

2) (5, 8), (9, 4), (5, 1)



Shape: _____

Math



Have your child determine what is the better deal? (Unit rate)

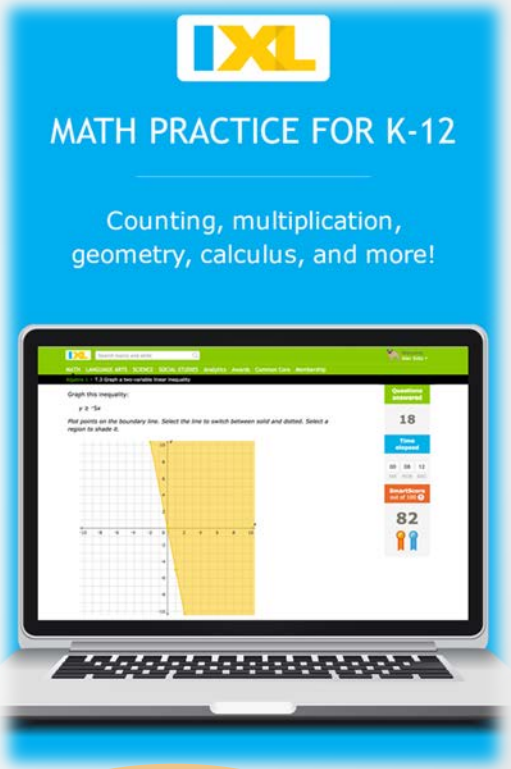
Ask your child to calculate the total cost of items purchase? (Decimal Operations)

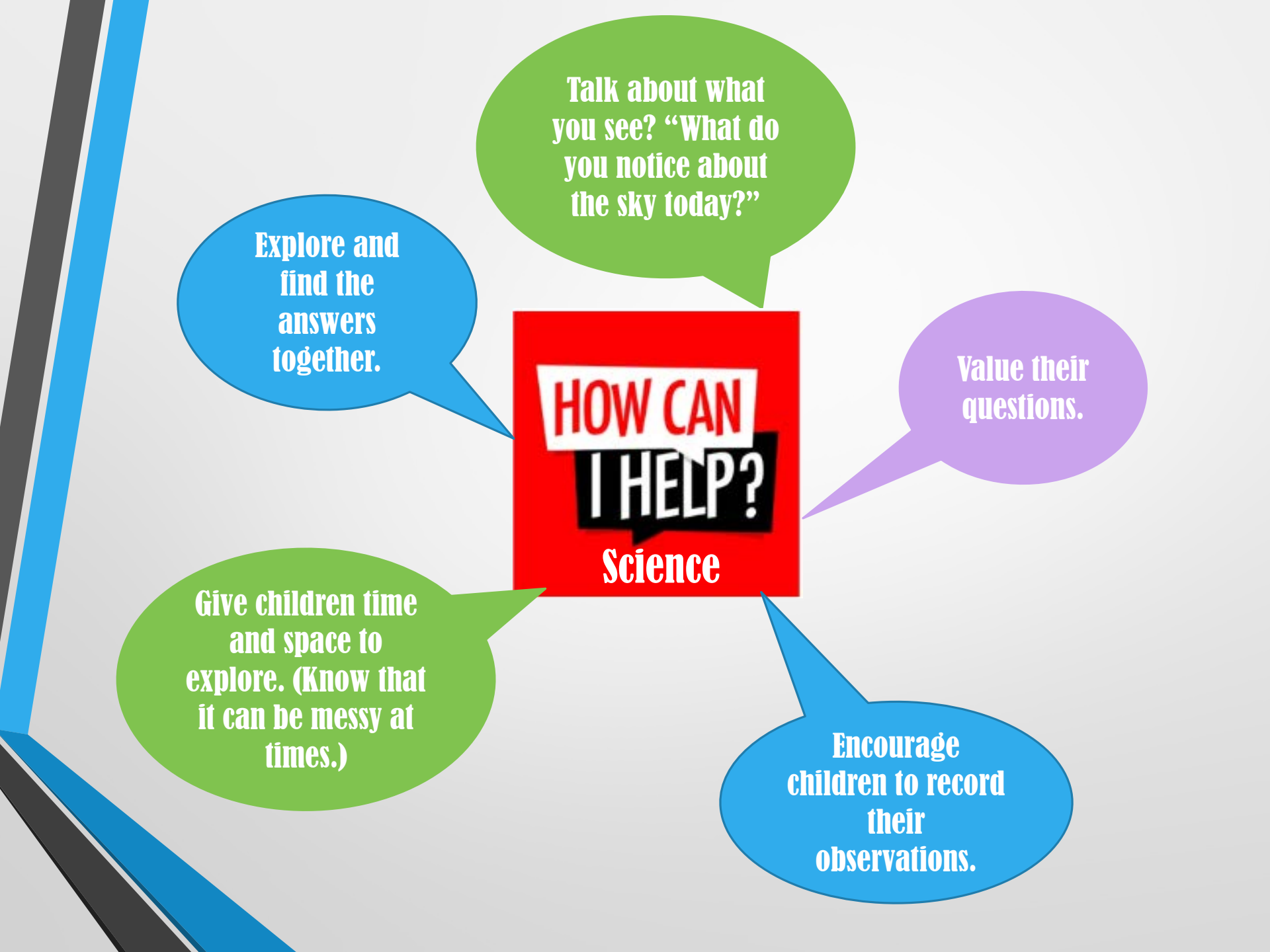
Have your child measure ingredients for a recipe. (measurement)

What would you do of you needed to double or reduce the recipe? (Fraction operations)

REVIEW Math Facts!

Ask your child to determine sales tax or sale price based on the discount. (Percentages)




Talk about what you see? “What do you notice about the sky today?”
Explore and find the answers together.
HOW CAN I HELP?
Science
Value their questions.
Give children time and space to explore. (Know that it can be messy at times.)
Encourage children to record their observations.

Thank You!