



ST Math.
Summer Immersion



PROBLEM SOLVING JOURNAL

WITH DESIGN BOOKLET

This journal belongs to:



Grade 1

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ST Math.
Summer Immersion



PROBLEM SOLVING JOURNAL

WITH DESIGN BOOKLET

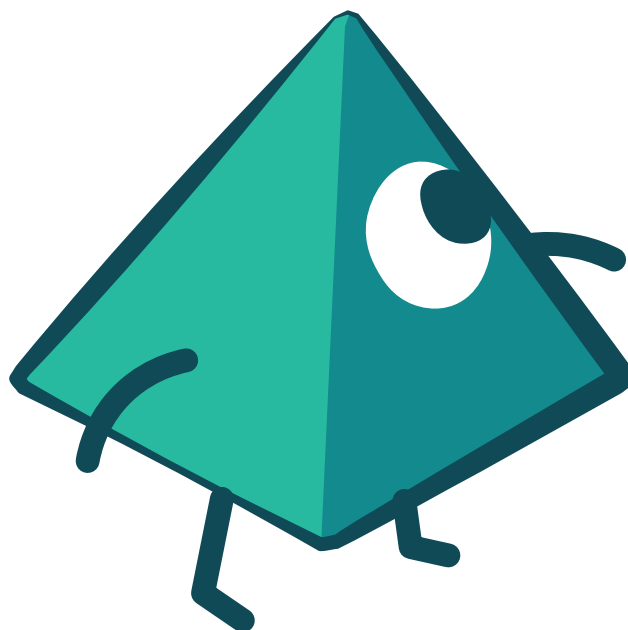
This journal belongs to:



Grade 1

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My Thinking Path

TOPIC: _____

Starting my math journey...



What do I wonder?

What do I know?



PROBLEM OF THE DAY | G1_POD_W1_D1

Make a "Getting to Know Our Class" chart.



Eye Color



Shoe Type



Hair Color



PROBLEM OF THE DAY | G1_POD_W1_D2

Describe the class mathematically. Use tally marks  to fill in the tables.

Our Class Mathematically

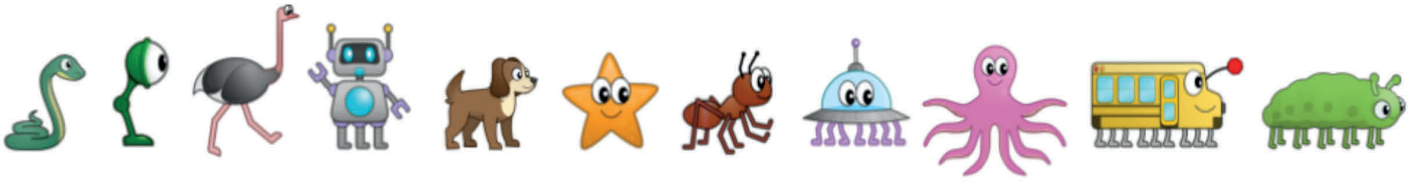


Class Pets	
Dog	
Cat	
Fish	
Bird	



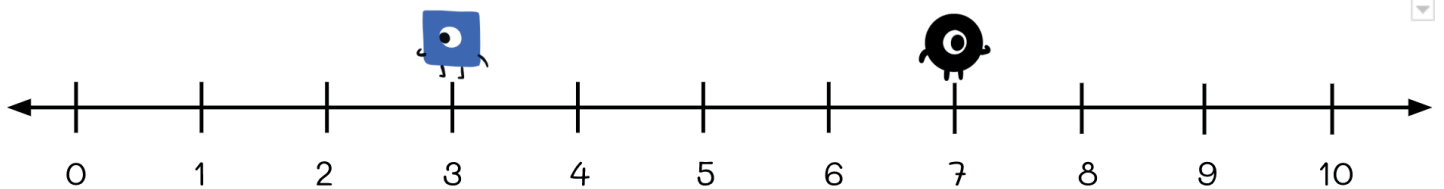
PROBLEM OF THE DAY | G1_POD_W1_D3

Which creatures can wear 10  shoes?



PROBLEM OF THE DAY | G1_POD_W1_D4

Find the missing number to complete the equation.



$$2 + \square = \text{circle character}$$

$$\square + 6 = \text{circle character}$$

$$7 - \square = \text{square character}$$

$$\square - 1 = \text{square character}$$



My Thinking Path

TOPIC: _____

Reflecting on my math journey...



What did I learn?

What do I still wonder?

I learned...

I have a question...

I did my best...

___ I got it!



___ I have a question.



___ I need help.



Because...

ST Math Puzzle Reflection 1

Draw what happened.

First

Next

Then

Last



What did you learn?



My Thinking Path

TOPIC: _____

Starting my math journey...



What do I wonder?

What do I know?



PROBLEM OF THE DAY | G1_POD_W2_D1

How much does the pie monster want to eat?

$5 + 4 = \square$

$3 + \square = \square$

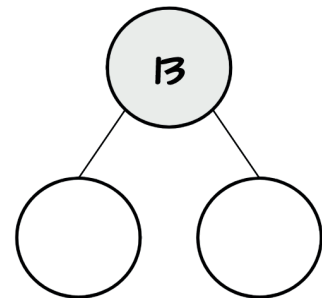
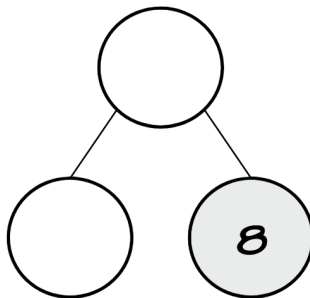
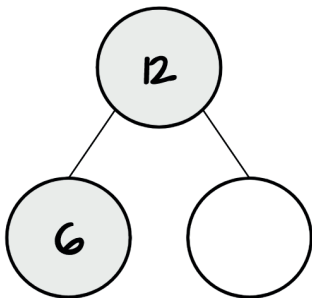
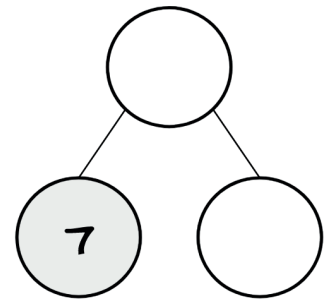
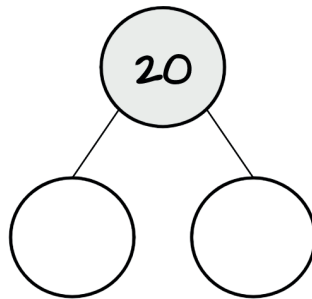
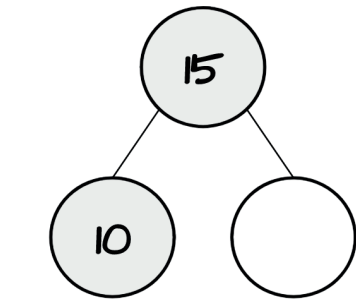
$\square + \square = \square$



PROBLEM OF THE DAY | G1_POD_W2_D2

Complete the number bonds.

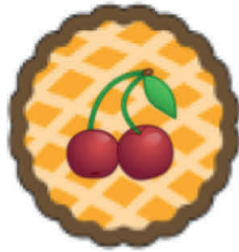
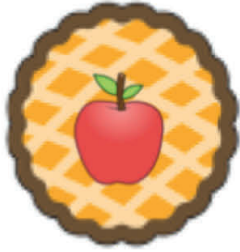
Number Bonds





PROBLEM OF THE DAY | G1_POD_W2_D3

There are apple pies, cherry pie and strawberry pie. There are 17 pies in all.



Apple pies =

Cherry pies =

Strawberry pies =

Most of the pies are:
(circle one)



PROBLEM OF THE DAY | G1_POD_W2_D4

There are 19 cars.

Your cars



How many cars do you have?

Your friend's cars



How many cars does your friend have?

Who has more cars? _____

How many more?



My Thinking Path

TOPIC: _____

Reflecting on my math journey...



What did I learn?

What do I still wonder?

I learned...

I have a question...

I did my best...

___ I got it!



___ I have a question.



___ I need help.



Because...

ST Math Puzzle Reflection 1

Draw what happened.

First

Next

Then

Last



What did you learn?

ST Math Puzzle Reflection 2

What did you learn?



Draw a picture.

Math words.



My Thinking Path

TOPIC: _____

Starting my math journey...



What do I wonder?

What do I know?



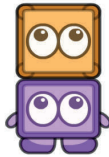
PROBLEM OF THE DAY | G1_POD_W3_D1

How many critter blocks?

If 3 critter blocks fall off, how many will be left?

If you put the 3 critter blocks back plus 2 more, how many blocks tall is the stack?

Make a stake of 8 critter blocks.



PROBLEM OF THE DAY | G1_POD_W3_D2

Make four different bracelets with 6 beads. Some beads are red, some beads are blue. Show the equation for each bracelet.

$\square + \square = \square$

$\square + \square = \square$

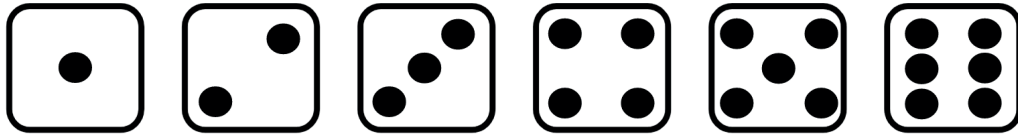
$\square + \square = \square$

$\square + \square = \square$



PROBLEM OF THE DAY | G1_POD_W3_D3

Use the dice below.



Which dice make ten? Complete the equations.

$$\square + \square = 7$$

$$\square + \square = 7$$

$$\square + \square + \square = 7$$



PROBLEM OF THE DAY | G1_POD_W3_D4

Solve.

$$\text{6 dots} + \text{5 dots} = \underline{\quad}$$

$$7 - \text{1 dot} = \underline{\quad}$$

$$\text{5 dots} + \square = 8$$

$$\text{6 dots} + \text{6 dots} = \underline{\quad}$$

$$\text{4 dots} + \text{3 dots} + \text{2 dots} = \underline{\quad}$$



My Thinking Path

TOPIC: _____

Reflecting on my math journey...



What did I learn?

What do I still wonder?

I learned...

I have a question...

I did my best...

___ I got it!



___ I have a question.



___ I need help.



Because...

ST Math Puzzle Reflection 1

Draw what happened.

First

Next

Then

Last



What did you learn?

ST Math Puzzle Reflection 2

What did you learn?



Draw a picture.

Math words.



My Thinking Path

TOPIC: _____

Starting my math journey...



What do I wonder?

What do I know?



PROBLEM OF THE DAY | G1_POD_W4_D1

JiJi is playing video games.



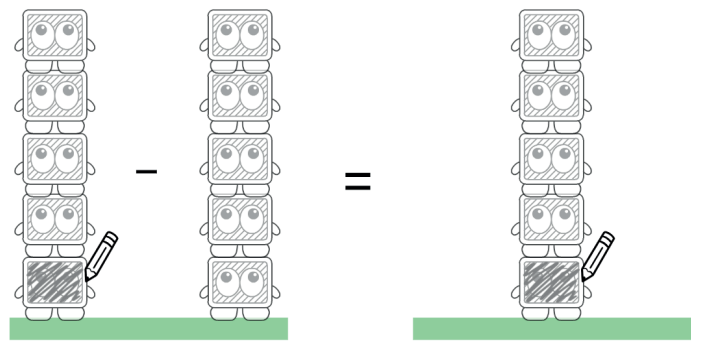
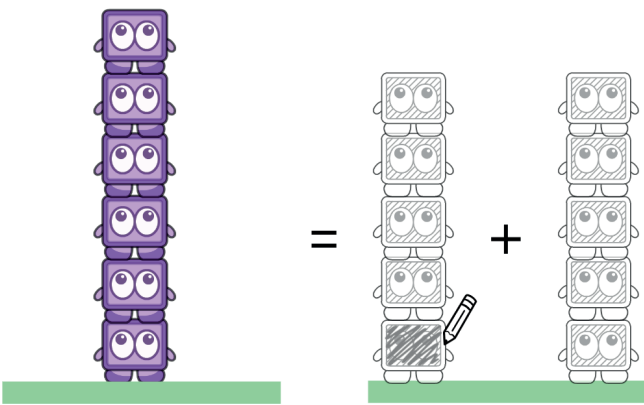
JIJI'S SCORES	
Level 1	won 16 points
Level 2	won 10 points
Level 3	lost 4 points

How many points does JiJi have?



PROBLEM OF THE DAY | G1_POD_W4_D2

Color the critters to make an equation.



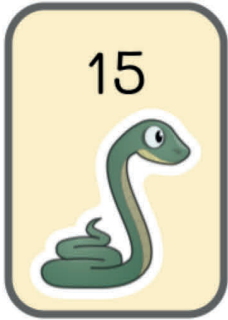
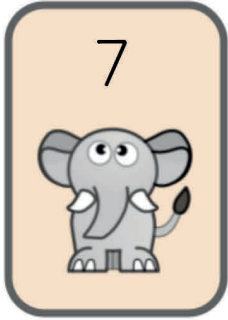
$$\square = \square + \square$$

$$\square - \square = \square$$



PROBLEM OF THE DAY | G1_POD_W4_D3

Complete.



$$\text{Snake} + \text{Turtle} = \square$$

$$\text{Elephant} + \square = 15$$

$$\square - \text{Dolphin} = 7$$



PROBLEM OF THE DAY | G1_POD_W4_D4

Fishing Game.



Which two fish would make 25?

$$\square + \square = 25$$

$$\square + \square = 25$$

Which three fish would make 25?

$$\square + \square + \square = 25$$

$$\square + \square + \square = 25$$



My Thinking Path

TOPIC: _____

Reflecting on my math journey...



What did I learn?

What do I still wonder?

I learned...

I have a question...

Blank space for writing.

Blank space for writing.

I did my best...

___ I got it!



___ I have a question.



___ I need help.



Because...

Blank space for writing.

ST Math Puzzle Reflection 1

Draw what happened.

First

Next

Then

Last



What did you learn?

ST Math Puzzle Reflection 2

What did you learn?



Draw a picture.

Math words.



My Thinking Path

TOPIC: _____

Starting my math journey...



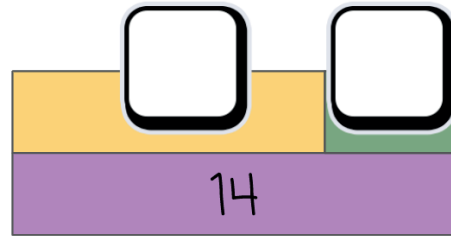
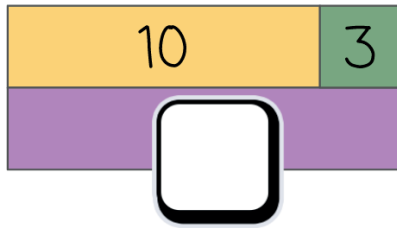
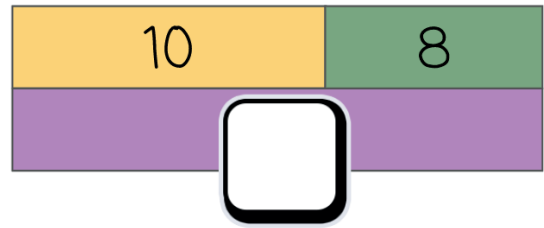
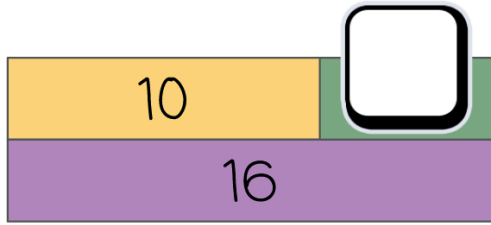
What do I wonder?

What do I know?



PROBLEM OF THE DAY | G1_POD_W5_D1

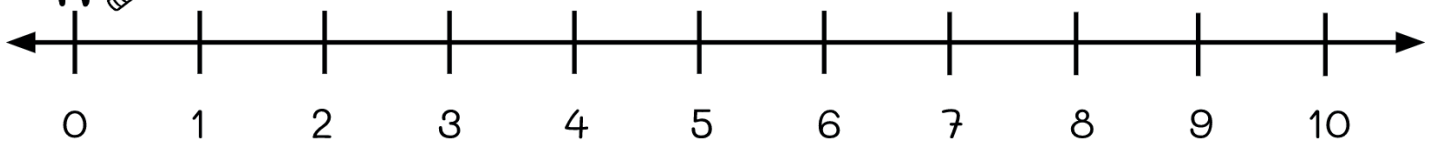
How long is the bar?



PROBLEM OF THE DAY | G1_POD_W5_D2

Getting to 8 on the number line.

Show me all the ways I can get to 8 in two jumps.





My Thinking Path

TOPIC: _____

Reflecting on my math journey...



What did I learn?

What do I still wonder?



STEP 1: ASK

PLAY GAMES



Number Kicker

I like this game because

Blank space for writing reasons for liking the game.

Write or draw the math you learned in this game

Blank space for writing or drawing math learned from the game.

STEP 1: ASK



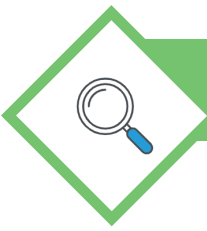
PLAY GAMES

Make Ten Concentration



I like this game because

Write or draw the math you learned in this game



STEP 2: INVESTIGATE

GAMES

My Favorite Game

● My favorite game (Put an X next to your favorite game)

___ Number Kicker

___ Make Ten Concentration

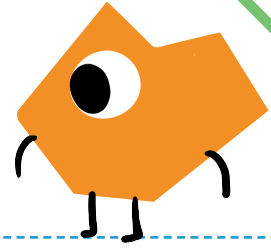
● This game is my favorite because

STEP 2: INVESTIGATE



GAMES

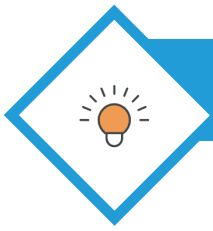
A Game Should Have



1

2

3



STEP 3: IMAGINE

MATH CONCEPT

Math Idea

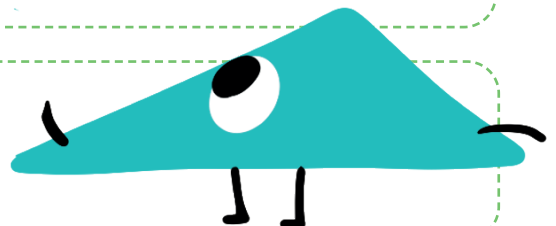
1 Our concept is

2 Write or draw to tell about it

3 I think the math concept is

___ easy

___ hard



STEP 3: IMAGINE

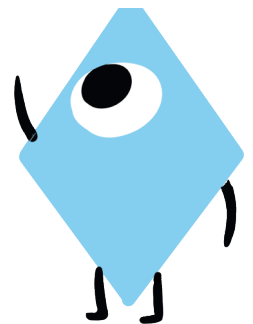


SHARE

My Ideas

What ideas do you have for your game? Write or draw them below.

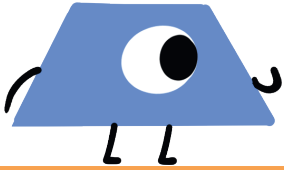
A large, empty rectangular area with a dashed blue border, intended for writing or drawing ideas.





STEP 3: IMAGINE

GAME PLAN



Our Game

The name of the game we are making is

We chose this game because

STEP 3: IMAGINE



GAME RULES

Rules

Tell how you play Tic Tac Toe

My new rule is

My new rule made the game (circle one)



STEP 4: PLAN

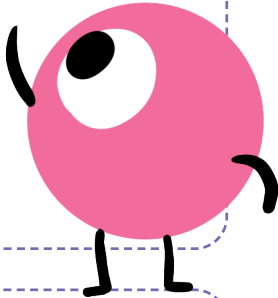
MAKING A DESIGN

Blueprint

1 Game name

2 Number of players

3 Things we need to build our game



4 People in my group

STEP 4: PLAN



MAKING A DESIGN

Game Rules

1 Tell how you play this game

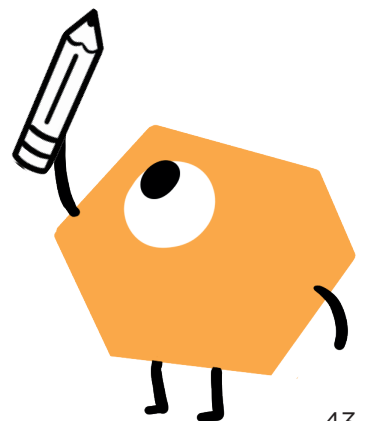
2 You win our game by

3 Give an example of the math in your game



STEP 4: PLAN

DRAW A PICTURE OF YOUR GAME BOARD



STEP 5: CREATE

WORKING TOGETHER



My Job

I will help build the game by

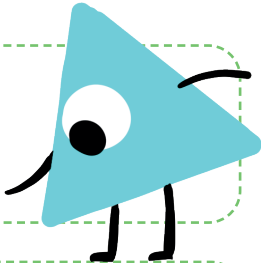
Things I need to do my job



STEP 6: TEST

CHECKING THE GAME

WHAT DO OTHERS THINK



1 Were your game rules easy to understand?

___ yes

___ no

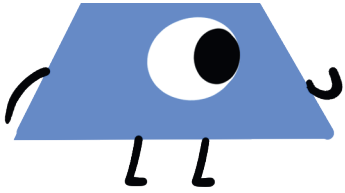
2 Explain why

3 One thing I want to change is

STEP 7: IMPROVE



REFLECTING ON THE GAME



REVIEW GAME

For Game Designers

1 I will improve my game by

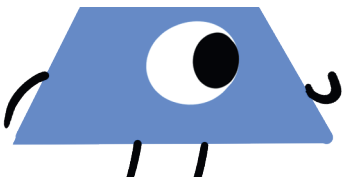
2 This makes my game better because

3 Something I learned testing my game is

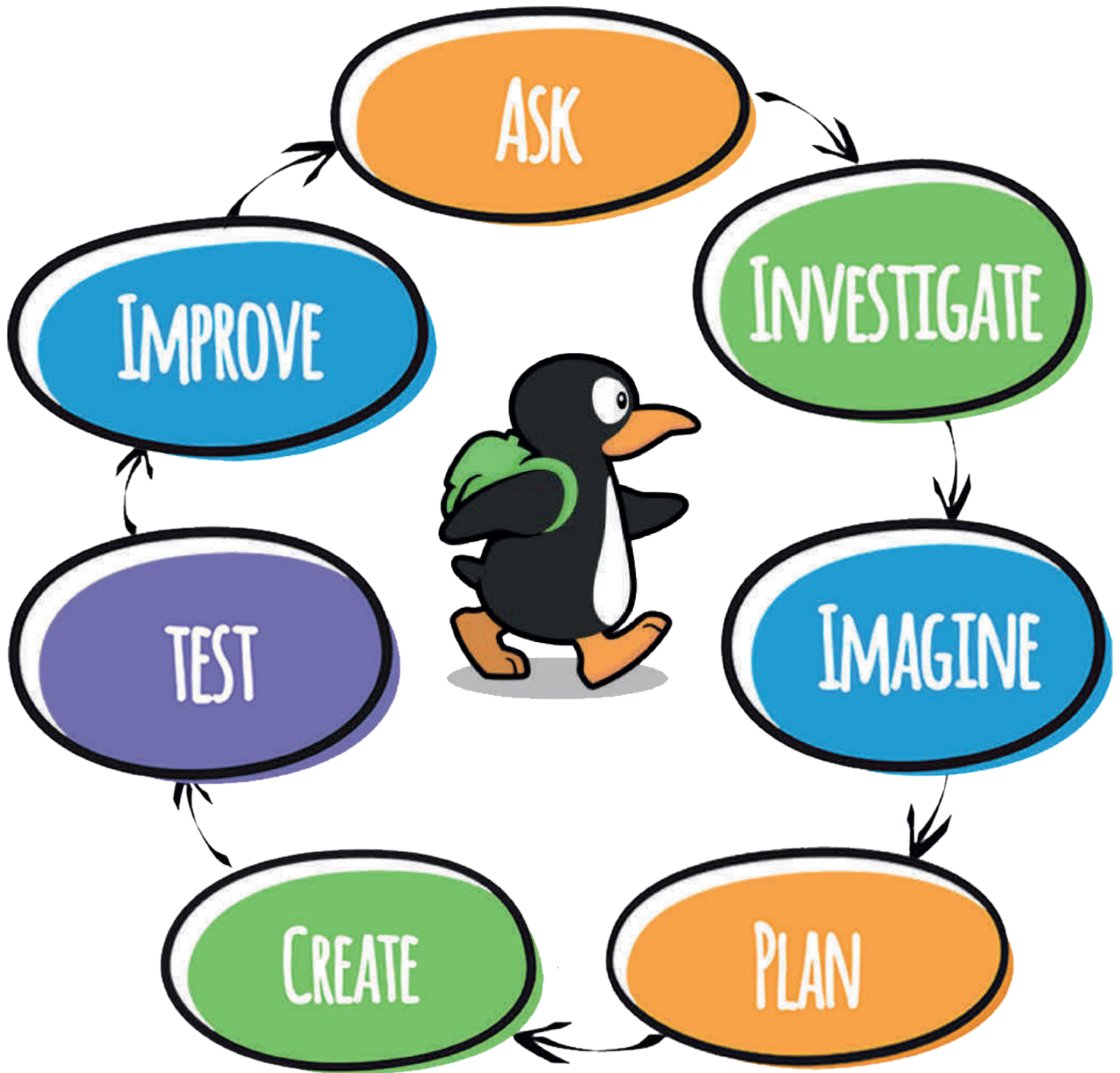


PRESENTING YOUR GAME

DRAW A POSTER ABOUT YOUR GAME.



DESIGN PROCESS



ST Math® Summer Immersion provides students in grades K-5 with an opportunity to accelerate math learning during the summer months. Students experience engaging and fun puzzles, lessons, and projects that focus on grade-level development of content knowledge, reasoning skills, and growth mindset.

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