



This workbook belongs to:	

NAME













WORKSHEET NAME	PG.	THIS ALSO TEACHES
SEQUENCE SOLVER	1	sequence of events
BEACH CLEANUP	3	environmental science
FIND THE BUG	6	break down problems
BUG HUNTING	8	compare and contrast
WHAT IF	11	communication +
CREATIVE CONDITIONS	16	English-Language Arts
RULES APPLY	17	classification
HOW MANY LOOPS?	19	pattern recognition
FUZZY FLEX	21	physical movement
FAMILIAR FUNCTIONS	22	sequence of events
FASHIONABLE FUNCTIONS	23	·
ASTEROID SORT	24	categorization and sorting
MATH WITH INTEGERS	25	mathematical computation
DESIGN YOUR HERO	26	ELA character development

RECOMMENDED: 4TH-5TH GRADE

FUZZ BUILDER WITH JAVASCRIPT

artistic expression

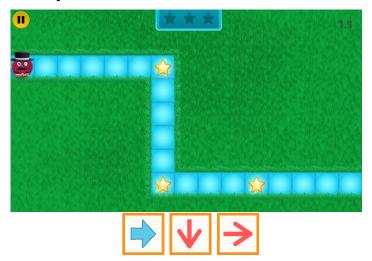
Sequence Solver

Directions:

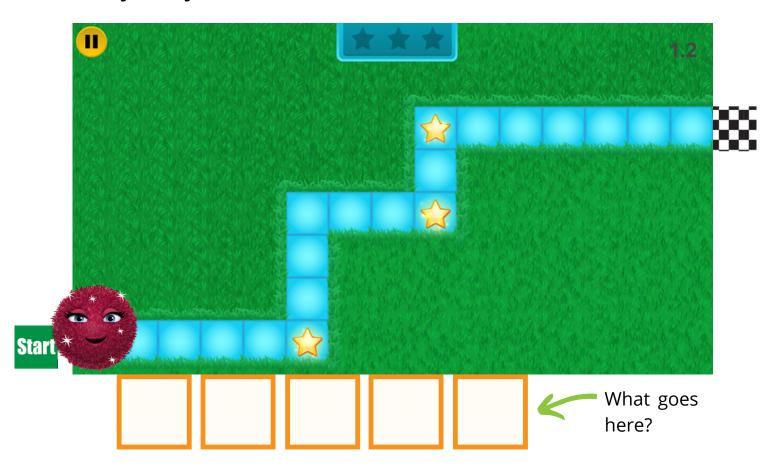
Help the Fuzz get through the maze!

Draw the missing arrows to tell the fuzz which way to roll to get to the end of the maze.

Example:

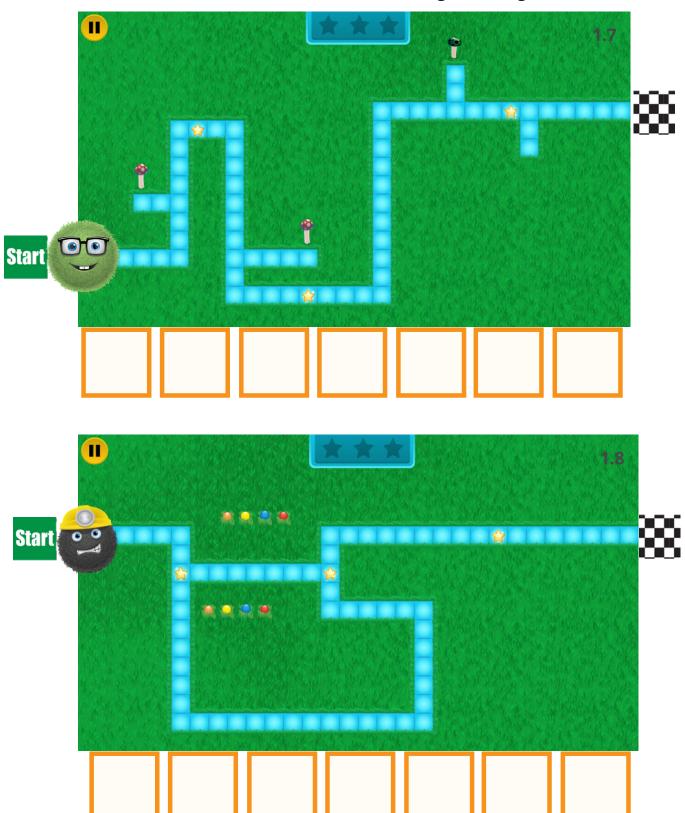


Now you try!



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Draw the arrows to show the fuzz how to get through the maze.



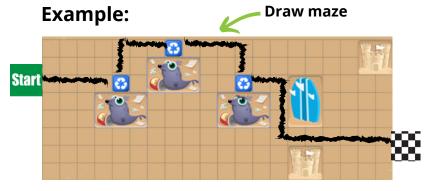
Beach Cleanup

Directions:

- 1. Draw a path from the start tile to the end tile that connects with all the blue recycle tiles.
- 2. Write the arrow commands in the command bins that would solve the maze!

Maze Rules:

- Must connect with all the pieces of trash.
- Can't cross over any obstacles (objects or sea creatures)









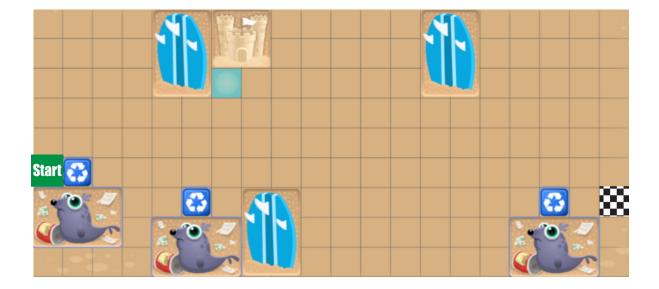








Now you try! Draw the path that connects the recycle tiles















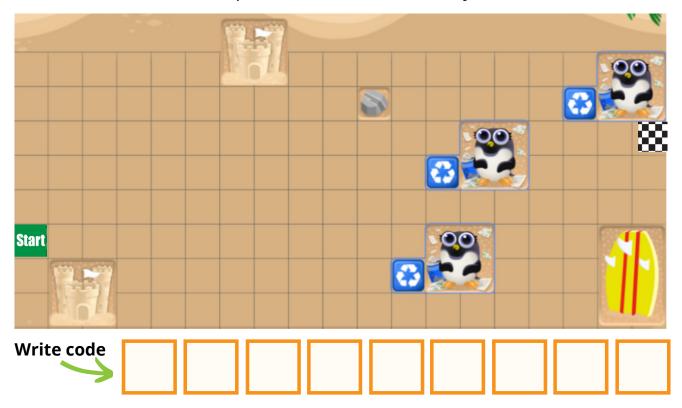


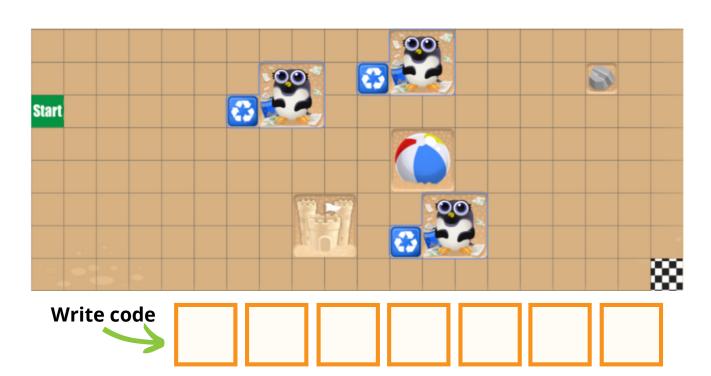




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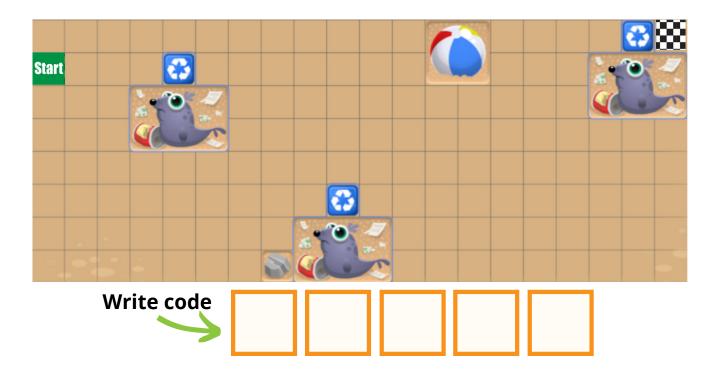
Draw the path that connects the recycle tiles

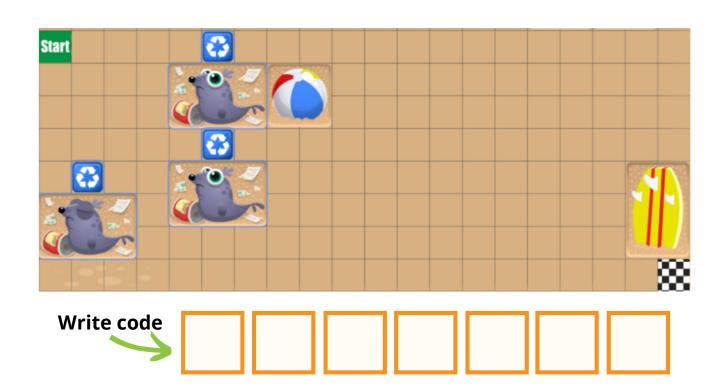




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Draw the path that connects the recycle tiles





Name:	Date:	

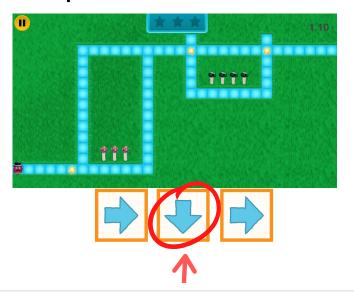


Directions:

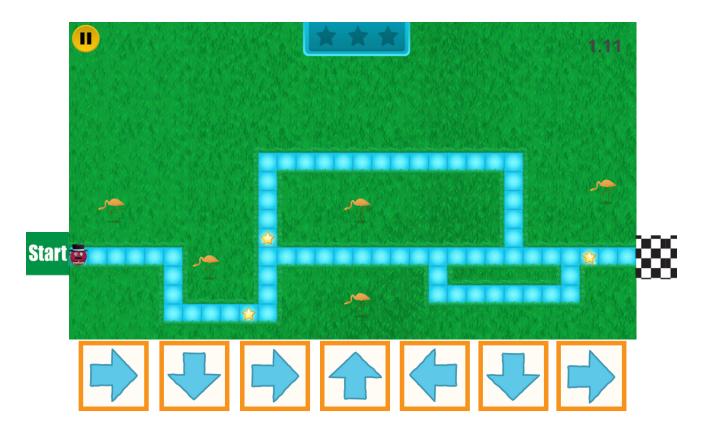
One or more of the commands in the code is wrong.

Find the incorrect commands, circle them, and write the correct command below it.

Example:

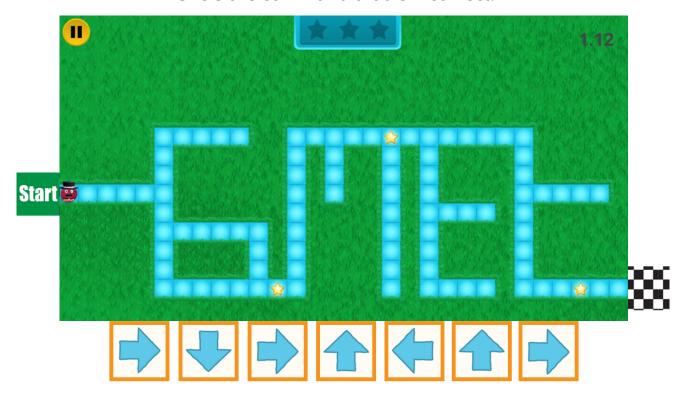


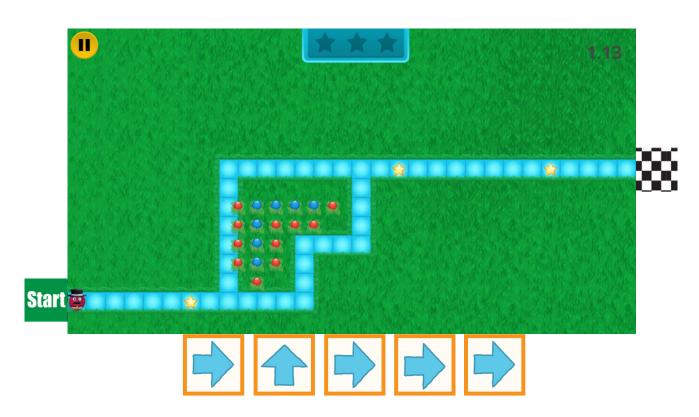
Now You Try!



Which of these commands is wrong?

Circle the command that is incorrect.





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Bug Hunting

Directions:

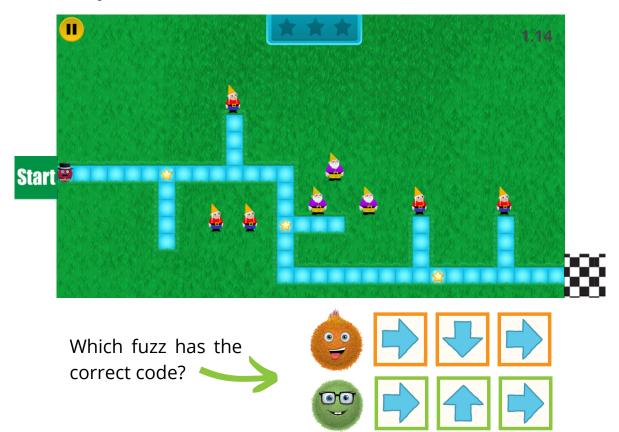
One of the Fuzzes has the correct code to solve the maze.

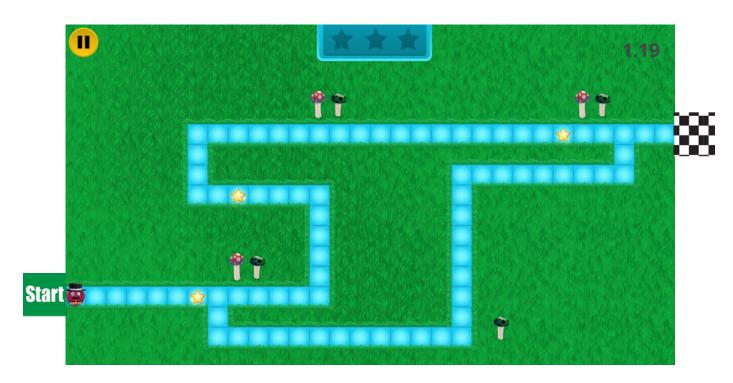
Circle the fuzz with the correct code! Put an "X" through any incorrect command.

Example:

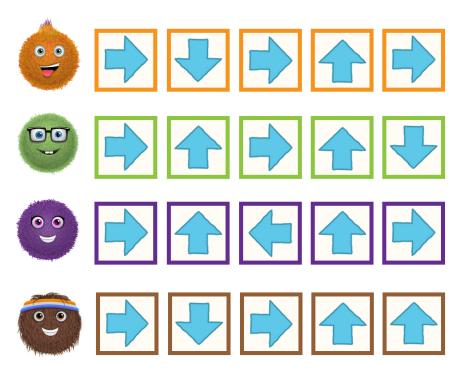


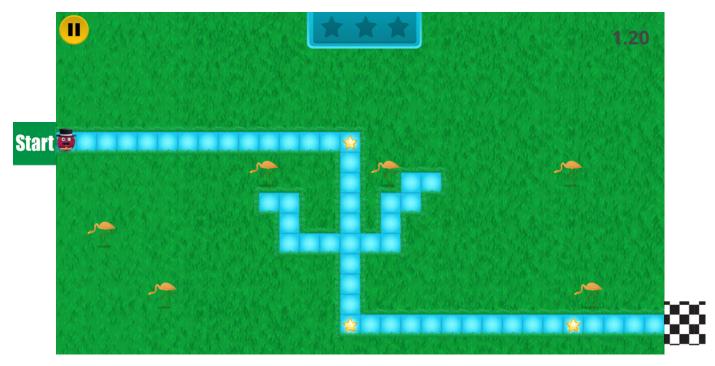
Now You Try!



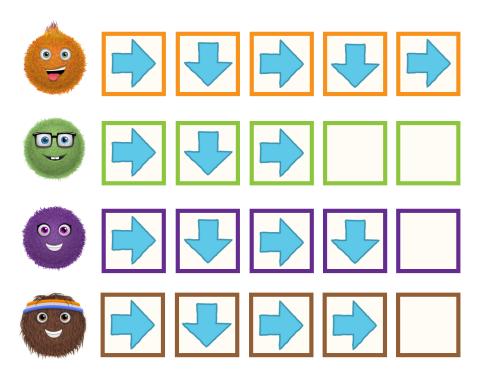


Circle the fuzz with the correct code. Put an "X" through any incorrect commands.





Circle the fuzz with the correct code. Put an "X" through any incorrect commands.



Name:	Date:
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What if...

Directions:

Complete each conditional statement.

Draw a picture to go along with it!

Example:



Now You Try!

IF it is cold outside, THEN...

IF it is a holiday THEN
IF it is the weekend, THEN

F	, THEN
F	, THEN

Name:	Date:

Creative Conditions

Directions:

Pick an image and use it as inspiration to write a short story. What would happen next? It's up to you!

if... (choose an image)







then... (what happens next? Write your story in the space below)

4	
	n

Rules Apply

Name:	Date:	

Directions:

- 1. Circle the rules
- 2. Put a rectangle around the **conditions**

Helpful Tips:



A rule is something that tells your program the direction to run.

A **condition** is an exception to a rule. It tells your program to change directions.

Now You Try!



Circle the rules. Rectangle the conditions:





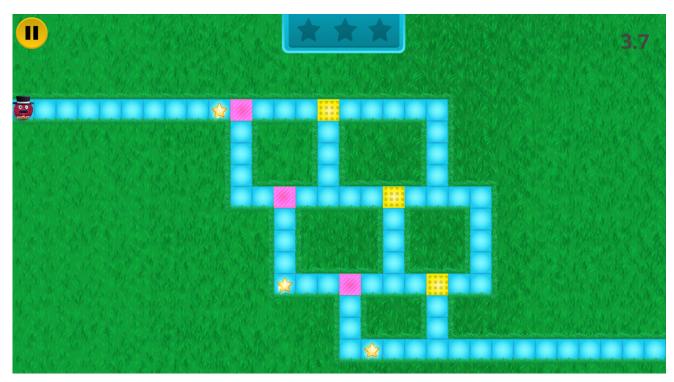








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Circle the rules. Rectangle the conditions:



How do you decide which ones are **conditions** or **rules**? Explain:

Name: Date	•
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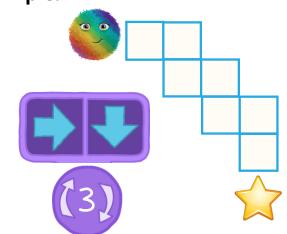
How Many Loops?

Example:

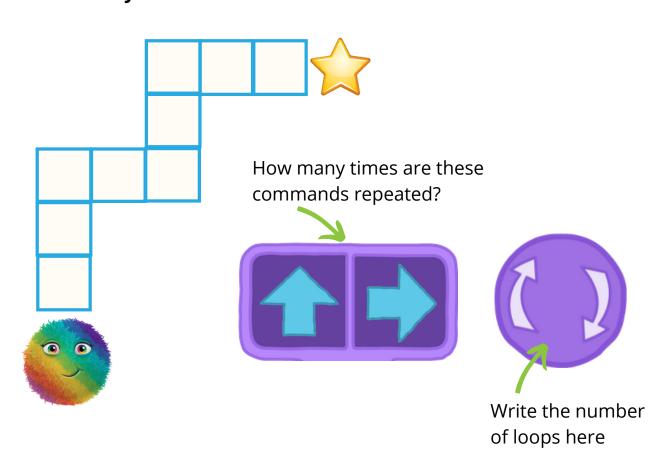
Directions:

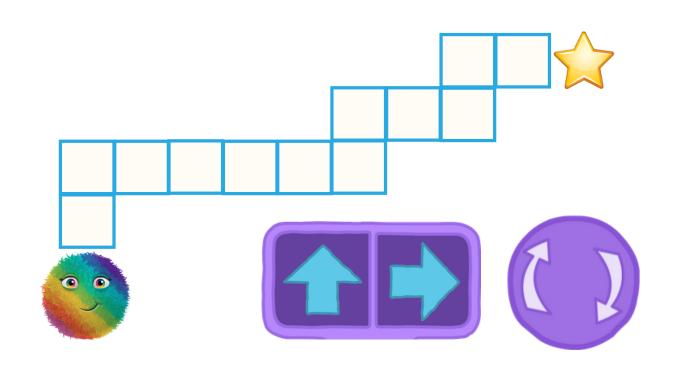
Help the fuzz reach the star!

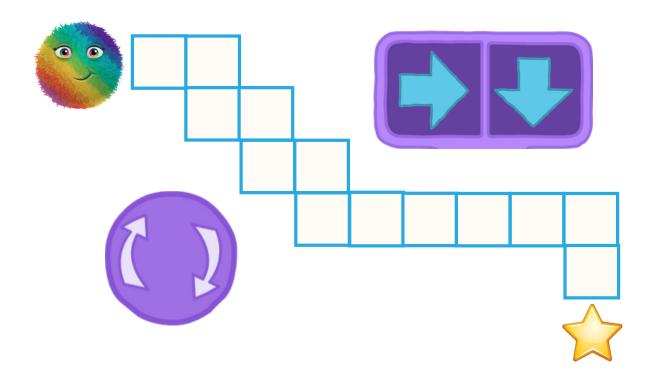
Write the number of times the fuzz needs to loop (repeat) the two commands.



Now You Try!



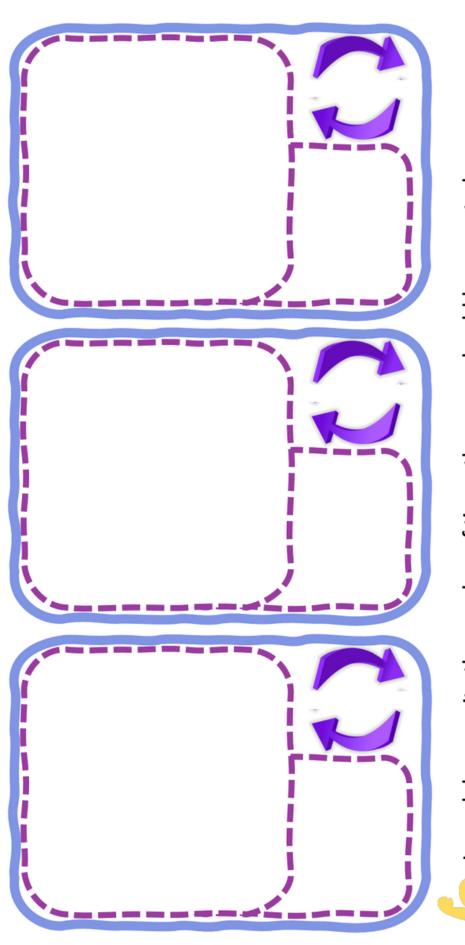




's Fuzzy Flex Program

Name

Instructions: In the boxes below, draw or write out the 3 exercises in your routine:



In each loop, write the number of times the move should be repeated.

Share your program with a friend or family member to test it out!

Make changes to the loops as needed.

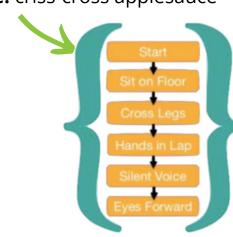
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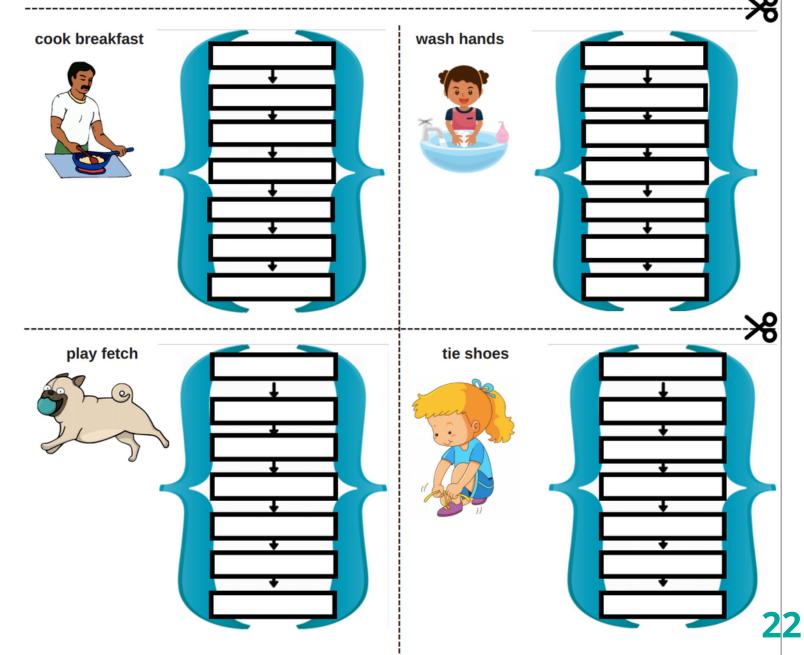
Familiar Functions

Example: criss-cross applesauce

Directions:

We've turned these daily routines into mental functions! Break down the steps for each task below.





Name:	Date:

Fashionable Functions

Instructions: Write the sequence of steps you follow when you get dressed on the lines below.

function getDressed() {

1

2

3 _____

4

5 _____

If your function has more than 5 steps, add more lines!

When you are done, think about the steps a **fuzz** takes to getDressed(). Would they be the same as yours?

Asteroid Sort

Directions:

- 1. Cut out the asteroids
- 2. Look at their values
- 3. Sort the asteroids based on the values into the correct variable containers!



Strings: Integers:

Name:	Date:
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Math with Integers

Directions:

Use integer values to calculate the total goals and goal differential for each soccer game.

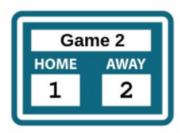
Example:



var homeGoals = 3 var awayGoals = 0

var sumGoals = homeGoals + awayGoals;
// sumGoals will be 3
var diffGoals = homeGoals - awayGoals;

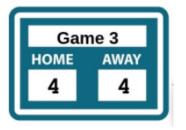
Now You Try!



var homeGoals = ____ var awayGoals = ____ var sumGoals = homeGoals + awayGoals;
// sumGoals will be _____

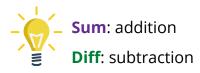
// diffGoals will be 3

var diffGoals = awayGoals - homeGoals;
// diffGoals will be _____



var homeGoals = ____ var awayGoals = ____ var sumGoals = homeGoals + awayGoals;
// sumGoals will be _____

var diffGoals = awayGoals - homeGoals;
// diffGoals will be _____



Design your Hero

Name:	

Date: _____

A **hero** can be a parent, sibling, grandparent, friend, teacher, coach, or anyone! What do you think makes someone a hero?

Meet Kara!

This is Kara. She is someone's hero! Her unique properties are defined in the JavaScript code below.



Directions:

Choose someone in your life you is a hero to you. Draw a picture of them and define their properties in the JavaScript template below.

kara = new Hero ();

kara.hair = black

kara.eyes = brown

kara.job = doctor

kara.personality1 = kind

kara.personality2 = funny

kara.personality3 = brave

_____ = new Hero () ;

_____.hair = _____

_____.eyes = _____ ___.job = _____

_____.personality1 = _____ ___.personality2 = _____

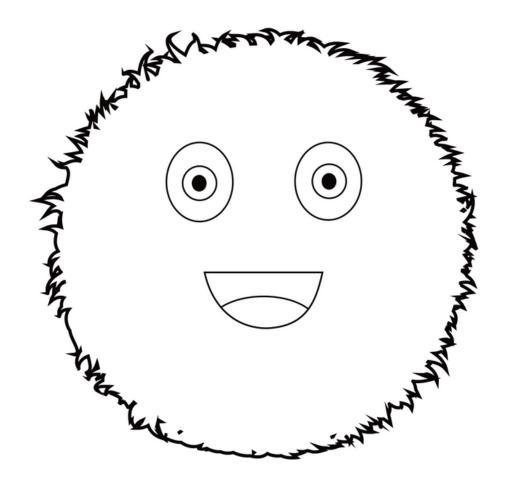
_____.personality3 = _____

Fuzz Builder with JavaScript

Date:	

Directions:

Build a fuzz! Give it color and at least 3 accessories. Get creative! Then, define it's properties in the JavaScript template below.



= new Fuzz (,)
fuzz.body =	
fuzz.eyes =	
<pre>fuzz.mouth =</pre>	
fuzz.accessory1 =	
fuzz.accessory2 =	
<pre>fuzz.accessory3 =</pre>	