

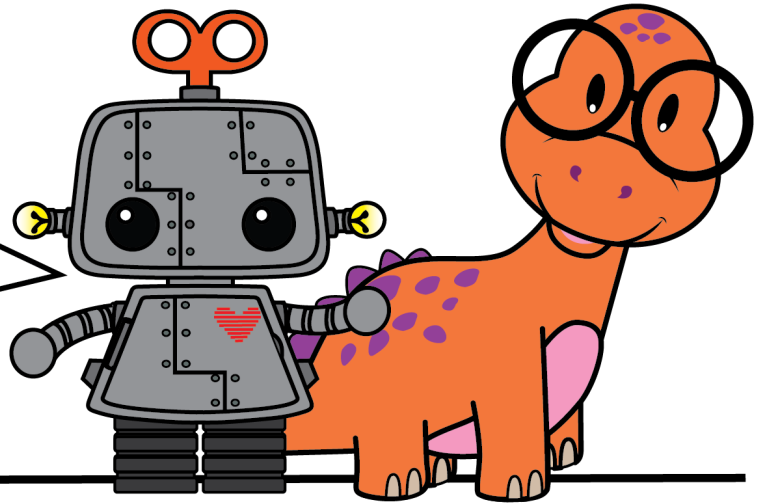
Name

Date

HOUR OF CODE!

Introduction, How to Use, Supplies & Parent Resource Guide

We're Tinker and Sputnik.
In this printable, you will
be learning about code
by doing some screen
less coding!



WHAT IS HOUR OF CODE?

Hour of Code is a wonderful way to learn about code!

Use these sheets to do the following -

- Learn about Algorithms and functions
- Create your own Algorithm
- Implement functions
- Experiment with debugging code
- Help Tinker and Sputnik complete a Challenge

SUPPLIES

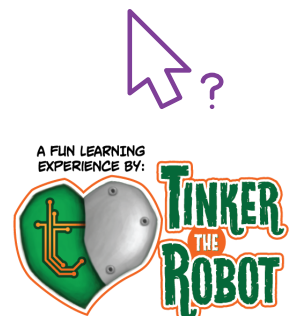
Supply suggestions.

- Printer - To Print PDF
- Scissors to cut the Game Pieces
- Pencil, Pen, Markers, or Crayons

HOW TO USE

1. Print all six sheets (if you don't have access to a printer check out our Resource Guide for options)
2. Cut out "game pieces" on Page 5
3. Complete the Algorithm & function Activities
4. Use what you learned to help Tinker and Sputnik
5. Try designing Algorithms for the other maps
6. Color your map and game pieces

RESOURCE GUIDE



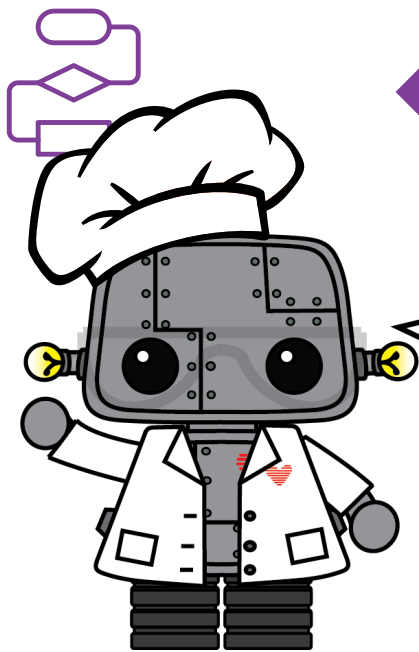
A FUN LEARNING
EXPERIENCE BY:

Name

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ALGORITHM

Sequence of Events

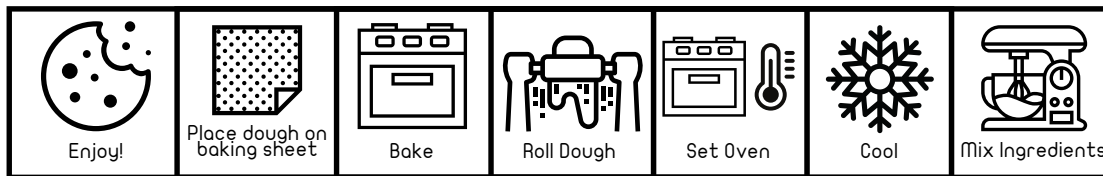


An algorithm is a sequence of events that needs to happen to perform a specific task. Here are a few examples - baking cookies or folding a paper airplane. The order in which you do the individual steps matter.



BAKING COOKIES

You will need the following Game Pieces -



Tinker wants to bake some cookies for Sputnik but the directions are out of order! Help her create an Algorithm by re-ordering the direction cards.



Heads up! There might be more boxes than steps!

A fun Learning Experience by



Name

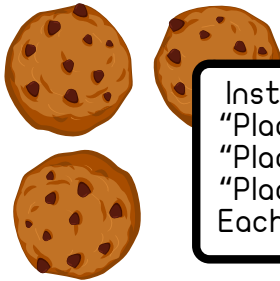
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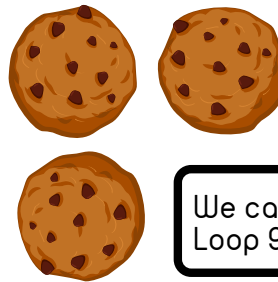
LOOP
Helps us Copy and Paste



Now that we know about algorithms we can learn about Loop functions!
Loop functions avoid us writing the same things over and over again.



Instead of writing
"Place dough on sheet"
"Place dough on sheet"
"Place dough on sheet"
Each time we place a cookie



We can write
Loop 9 (Place dough on sheet)

BAKING MORE COOKIES

How would you rewrite the algorithm for 9 cookies?

You will need the following Game Pieces -

All the pieces from the Algorithm Activity

Loop

Enjoy!	Place dough on baking sheet	Bake	Roll Dough	Set Oven	Cool	Mix Ingredients

&

Loop

Name

Date

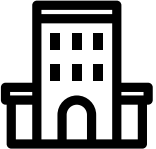

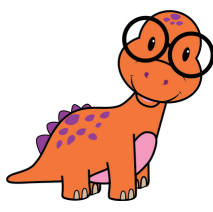

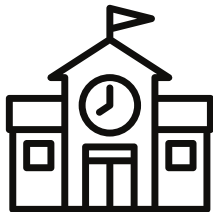
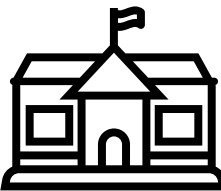
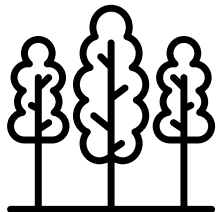
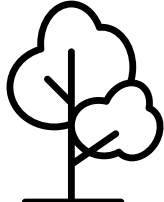
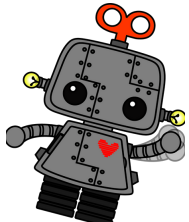


DELIVER COOKIES



Helps Tinker deliver cookies to Sputnik

Tinker lost his directions to Sputnik, create an algorithm so Tinker can deliver his cookies to Sputnik!

Didn't work? No worries, that just means you get to debug your code! Debugging is when you look for what awry and fix it!

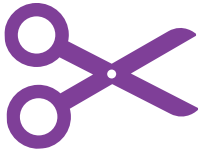
Looking for more?

- Use the loop function to get it down to as few steps as possible.
- Create your own map and Challenge your fellow Scouts.

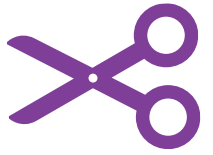


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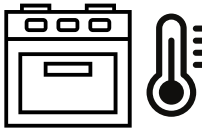
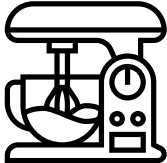

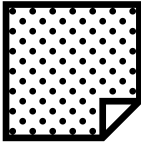
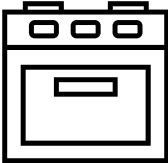




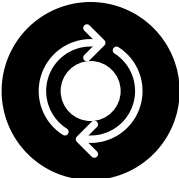
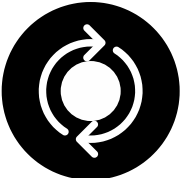


GAME PIECES

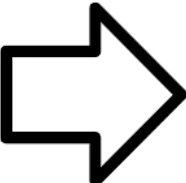






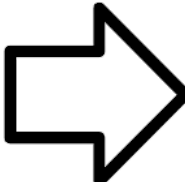
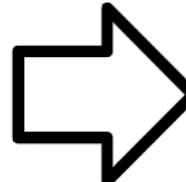

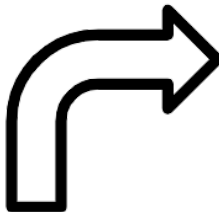
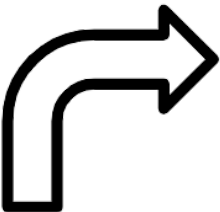
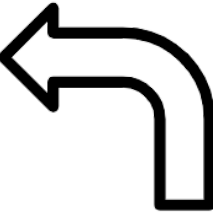
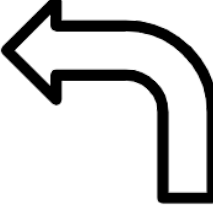

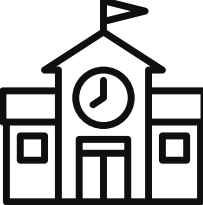
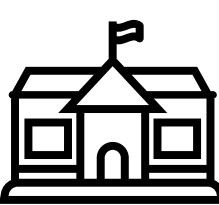

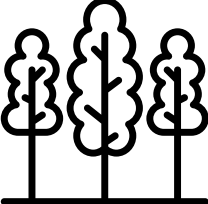
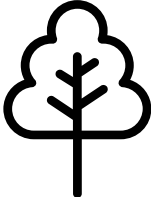


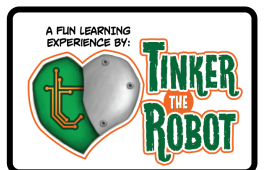
Cut out Game Pieces for the Activities
Use blank pieces to design your own

BAKING COOKIES

					
Set Oven	Mix Ingredients	Roll Dough	Place dough on baking sheet	Bake	Cool
					
Enjoy!	Loop	Loop	Loop	Loop	

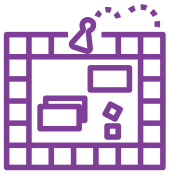
DELIVER COOKIES

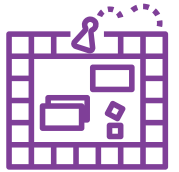


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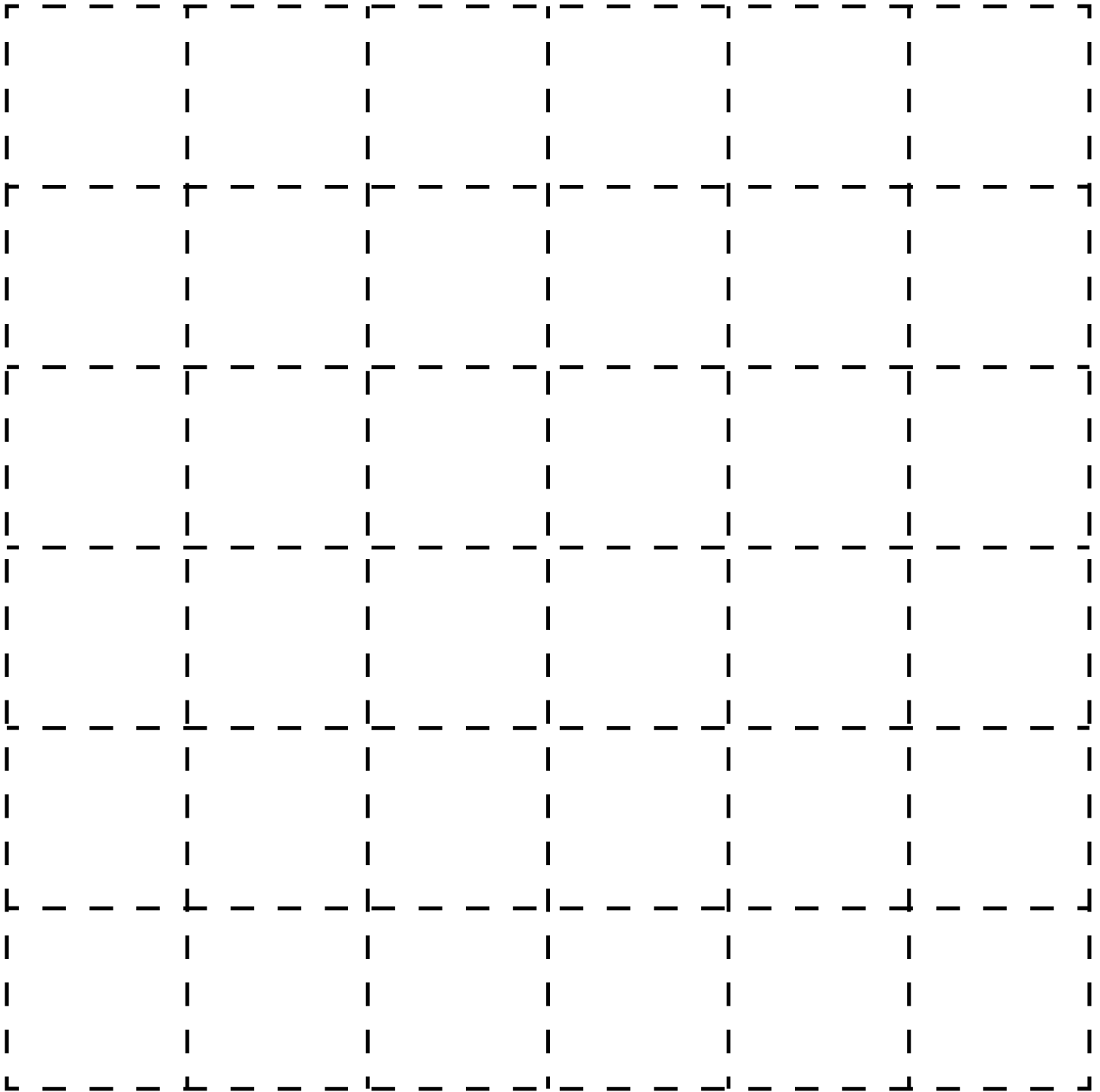


BLANK GAME BOARD



Create your own with our Game and Challenge your fellow Scouts.

Use the Game Pieces to design your own map.
Design your own Game Piece in the blank boxes.



Name

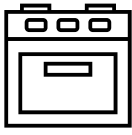

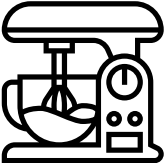

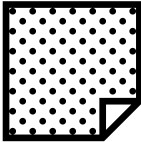
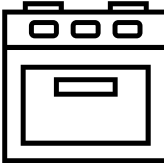


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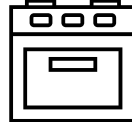

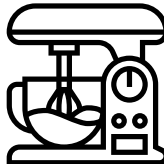

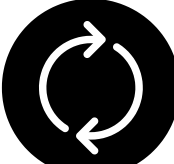
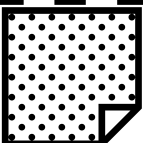
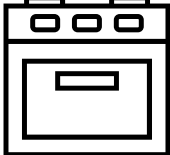

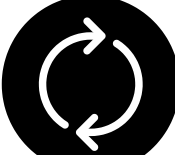

SOLUTIONS



BAKING COOKIES

 					
Set Oven	Mix Ingredients	Roll Dough	Place dough on baking sheet	Bake	Cool
					
Enjoy!					

DELIVER COOKIES

 				9	
Set Oven	Mix Ingredients	Roll Dough	Loop		Place dough on baking sheet
			9		
Bake	Cool	Loop		Enjoy!	

The 9 is written in