

BOT BASICS

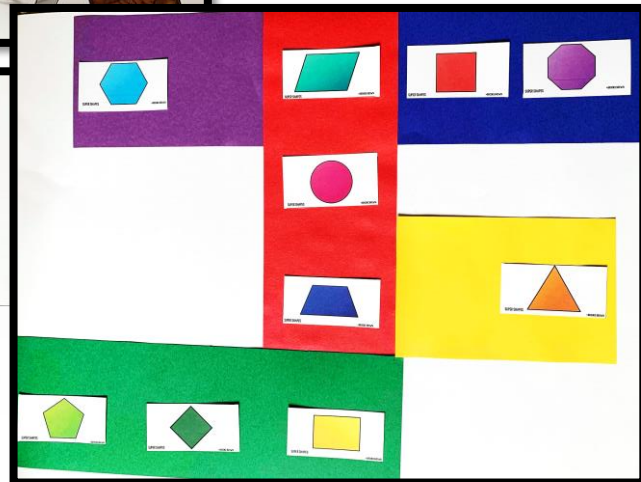
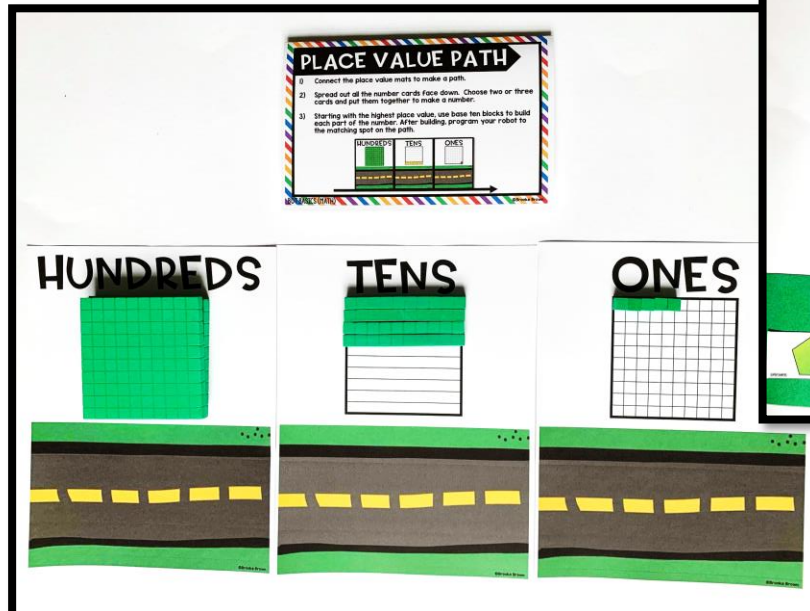
MATH EDITION



**SIMPLE MATH
ROBOTICS
CHALLENGES FOR
BEGINNERS**

CREATED BY BROOKE BROWN

SIMPLE MATH ROBOTICS CHALLENGES FOR BEGINNERS



USE WITH ANY DRIVING BOT!

14 MATH CHALLENGES

NUMBER MATCH

- 1) Connect the Number Match mats to make a large grid. Mix up the ten frame cards and place them face down in a stack.
- 2) Flip over the top ten frame card. Program your robot to move to the matching number. Try to use only ONE sequence of code.
- 3) Flip over the next ten frame card and repeat. Continue with all ten frame cards.

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20

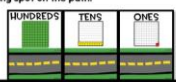
Start Here

HUNDREDS

TENS

PLACE VALUE PATH

- 1) Connect the place value mats to make a path.
- 2) Spread out all the number cards face down. Choose two or three cards and put them together to make a number.
- 3) Starting with the highest place value, use base ten blocks to build each part of the number. After building, program your robot to the matching spot on the path.



sphere cube

cylinder cone

rectangular prism triangular prism

triangular pyramid square pyramid

FRACTION FUN

- 1) Create a large rectangular path with straight edges. Spread the fraction pictures along the path. Mix up the fraction number cards and place them face down in a stack.
- 2) Flip over the top fraction card. Program your robot to move to the matching fraction picture. Try to use only ONE sequence of code.
- 3) Flip over the next fraction card and repeat. Continue with all fraction cards.

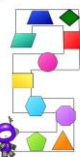


SUPER SHAPES

- 1) Create a path or maze with straight edges. You may use wooden planks, popsicle sticks, base ten rods, or construction paper to make your maze.
- 2) Spread the shape pictures throughout the maze. Mix up the word cards and place them face down in a stack.

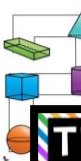
3) Flip over the top word card. Program your robot to move to the matching shape picture. Try to use only ONE sequence of code.

4) Flip over the next word card and repeat. Continue with all word cards.



SUPER SOLIDS

- 1) Create a path or maze with straight edges. You may use wooden planks, popsicle sticks, base ten rods, or construction paper to make your maze.
- 2) Spread the 3D solid pictures throughout the maze. Mix up the word cards and place them face down in a stack.
- 3) Flip over the top word card. Program your robot to move to the matching 3D solid. Try to use only ONE sequence of code.
- 4) Flip over the next word card and repeat. Continue with all word cards.



FIND THE DIFFERENCE

- 1) Connect the number mats to make a large grid. Mix up the dominoes and place them face down next to the mats.
- 2) Flip over any domino. Subtract the smaller number of dots from the larger number of dots and program your robot to move to the matching sum. Try to use only ONE sequence of code.
- 3) Flip over another domino and repeat. Continue with all dominoes.

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18		

Start Here

FIND

- 1) Connect the number mats to make a large grid. Mix up the dominoes and place them face down next to the mats.
- 2) Flip over any domino. Count the total number of dots and program your robot to move to the matching sum. Try to use only ONE sequence of code.
- 3) Flip over another domino and repeat. Continue with all dominoes.

5	6	7	8
9	10	11	12
13	14	15	16
17	18		

Start Here

COIN CRASH

- 1) Choose 6 mini coin cups and build a tower.
- 2) Drive or program your robot to crash through the cups.
- 3) Count the total amount of coin cups that fall over.
- 4) Build a tower with more cups and repeat.



TIME TUNNELS

- 1) Fold all the time cards in half and set up like tents. Spread out the tents. Place the clock cards facedown in a stack.
- 2) Flip over the top clock card. Program your robot to go through the matching time tunnels for hours and minutes. Try to use only ONE sequence of code.
- 3) Flip over another clock card and repeat. Continue with all clock cards.



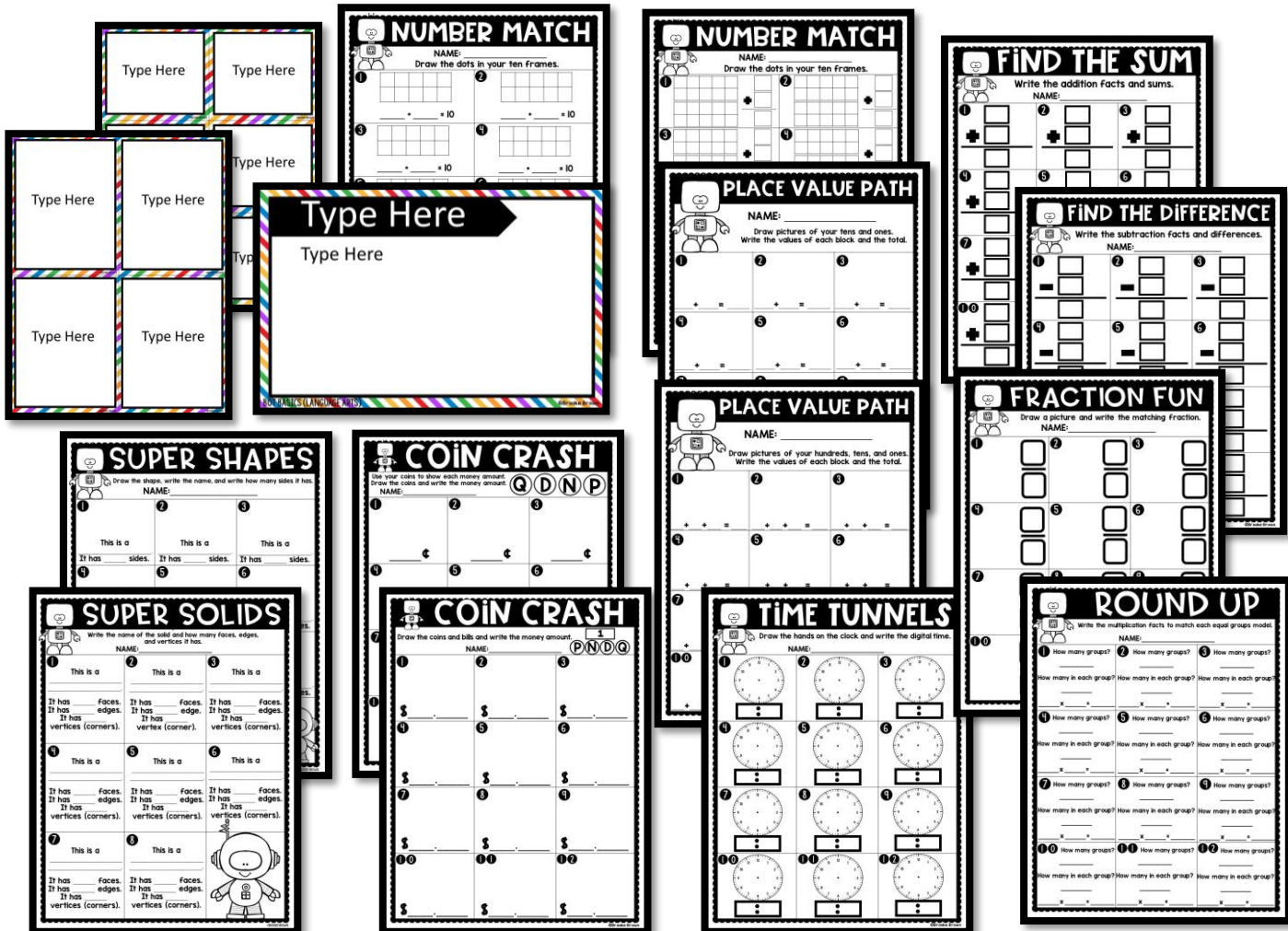
ROUND UP

- 1) Mix up the cards and place them face down in a stack.
- 2) Flip over the top card. Use the snap cubes to build equal groups for the amount in each group.
- 3) Program your robot to circle around each of the equal group towers.



USE WITH ANY DRIVING BOT!

WRITING TEMPLATES & EDITABLE CHALLENGES



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