

SYMMETRY
WORKING MEMORY
SPATIAL

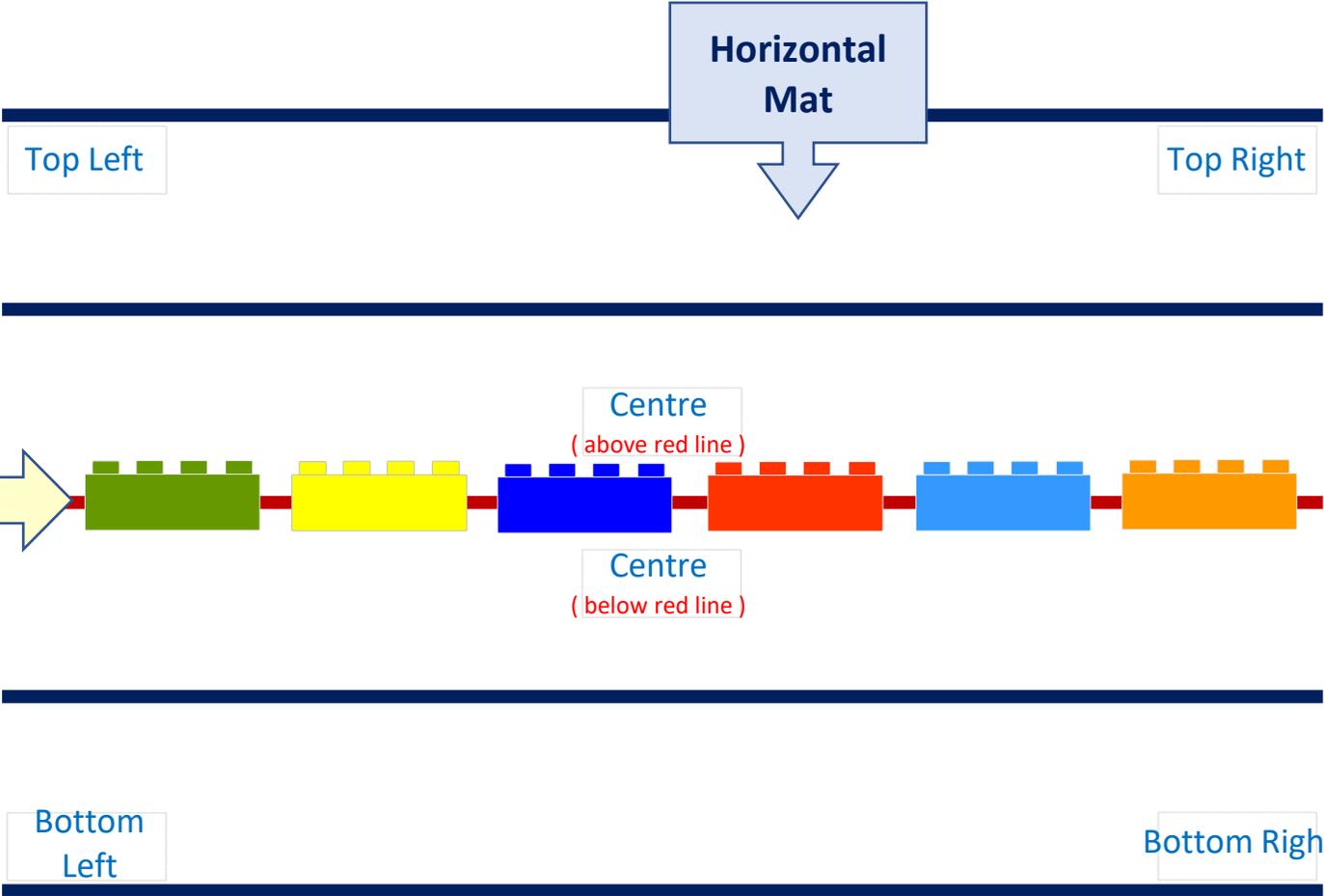
(positioning, probability, symmetry, prediction, basic operations, spatial orientation, visual discrimination & memory)

Six Bricks

Crossing the B-Line



Crossing the B-Line : Spatial Awareness



SAH Option 1

Light Blue Top Right
Green Centre / above red line
Orange Bottom Right
Red Bottom Left
Dark Blue Centre / below red line
Yellow Top Left

SAH Option 2

Red Top Right
Orange Centre / above red line
Green Bottom Right
Dark Blue Centre / below red line
Yellow Top Left
Light Blue Bottom Left

SAH Option 3

Yellow Bottom Left
Dark Blue Centre / left of red line
Red Join - on top of Green
Orange Centre / right of red line
Light Blue Touching Yellow
Green Join - under Yellow

SAH Option 4

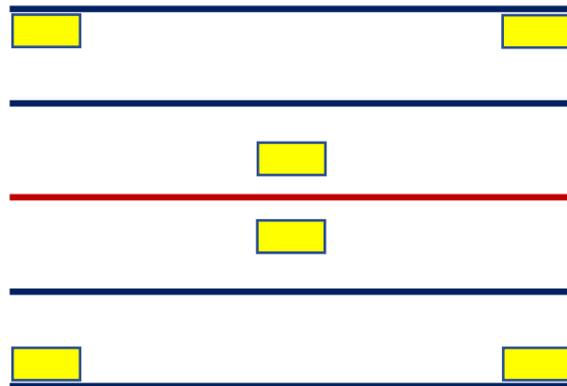
Red Bottom Right
Dark Blue Top Left
Light Blue On top of Red
Yellow Below Dark Blue
Green Centre / below red line
Orange Touching Yellow

SAH Option 5

Yellow Centre / below red line
Green Top Left
Light Blue Bottom Right
Dark Blue Centre / above red line
Orange Bottom Left
Red Top Right

SAH Option 6

Green Bottom Right
Yellow Top Left
Dark Blue On top of Red
Orange Below Dark Blue
Light Blue Centre / left of red line
Red Touching Green



Variations and options for these activities :

*use only both index fingers - lift and place - no sliding
right hand behind back / left hand behind back
high 5 - keep hands stuck together - use other hands only
use a pencil / stick / peg / chopsticks
pick up with thumb and baby finger - lift and place - no sliding
one hand on head / finger on nose / finger on lips / hand tapping head*

With Partners :

must both be touching any brick to move / place it

SAH Option 7

Light Blue	Top Right
Green	Centre / above red line
<i>Pause for 1st movements</i>	
Orange	Bottom Right
Red	Bottom Left
<i>Pause for 2nd movements</i>	
Dark Blue	Centre / below red line
Yellow	Top Left
<i>Pause for last movements</i>	

SAH Option 8

Red	Bottom Right
Dark Blue	Top Left
<i>Pause for 1st movements</i>	
Light Blue	On top of Red
Yellow	Below Dark Blue
<i>Pause for 2nd movements</i>	
Green	Any centre block
Orange	Touching Yellow
<i>Pause for last movements</i>	

SAH Option 9

Red	Top Right
Orange	Centre / above red line
<i>Pause for 1st movements</i>	
Green	Bottom Right
Dark Blue	Centre / below red line
<i>Pause for 2nd movements</i>	
Yellow	Top Left
Light Blue	Bottom Left
<i>Pause for last movements</i>	

SAH Option 10

Yellow	Centre / below red line
Green	Top Left
Light Blue	Bottom Right
<i>Pause for 1st movements</i>	
Dark Blue	Centre / above red line
Orange	Bottom Left
Red	Top Right
<i>Pause for last movements</i>	

SAH Option 11

Orange	Centre / below red line
Green	Top Left
Red	Bottom Right
<i>Pause for 1st movements</i>	
Yellow	Centre / above red line
Dark Blue	Bottom Left
Light Blue	Top Right
<i>Pause for last movements</i>	

SAH Option 12

Dark Blue	Bottom Right
Light Blue	Top Left
Yellow	On top of Red
<i>Pause for 1st movements</i>	
Green	Below Dark Blue
Red	Any centre block
Orange	Touching Green
<i>Pause for last movements</i>	

Variations and options for these activities :

see variations on previous page

come up with your own ideas

ask the children to come up with some ideas

SAH Option 13

Yellow Bottom Left
Red Top Right
Light Blue Top Left
Green Bottom Right

Pause for attempt 1

option to repeat

Pause for attempt 2

SAH Option 14

Red Bottom Left
Dark Blue Top Right
Light Blue Top Left
Orange Bottom Right

Pause for attempt 1

option to repeat

Pause for attempt 2

SAH Option 15

Green Bottom Left
Red Top Right
Orange Top Left
Yellow Bottom Right

Pause for attempt 1

option to repeat

Pause for attempt 2

SAH Option 16

Yellow Bottom Left
Orange Any centre block
Red Top Left
Green Any centre block

Pause for attempt 1

option to repeat

Pause for attempt 2

SAH Option 17

Green Bottom Right
Yellow Any centre block
Dark Blue Bottom Left
Orange Top Left
Light Blue Top Right

Pause for attempt 1

option to repeat

Pause for attempt 2

SAH Option 18

Red Top Right
Orange Centre / above red line
Green Bottom Right
Dark Blue Centre / below red line
Yellow Top Left
Light Blue Bottom Left

Pause for attempt 1

option to repeat

Pause for attempt 2

SAH Option 19

Orange	<i>with</i>	thumb	<i>to</i>	Top Right
Red	<i>with</i>	ring finger	<i>to</i>	Any centre block
Light Blue	<i>with</i>	elbow	<i>to</i>	Bottom Right
Dark Blue	<i>with</i>	back of hand	<i>to</i>	Bottom Left
Yellow	<i>with</i>	nose	<i>to</i>	Any centre block
Green	<i>with</i>	chin	<i>to</i>	Top Left

SAH Option 20

Red	<i>with</i>	thumb	<i>to</i>	Bottom Left
Green	<i>with</i>	baby finger	<i>to</i>	Any centre block
Yellow	<i>with</i>	wrist	<i>to</i>	Top Right
Dark Blue	<i>with</i>	shoulder	<i>to</i>	Top Left
Orange	<i>with</i>	chin	<i>to</i>	Bottom Left
Light Blue	<i>with</i>	shoulder	<i>to</i>	Any centre block

SAH Option 21

Yellow	<i>with</i>	Left elbow	<i>to</i>	Bottom Right
Green	<i>with</i>	Right thumb	<i>to</i>	Any centre block
Dark Blue	<i>with</i>	Right ear	<i>to</i>	Bottom Left
Red	<i>with</i>	Left index finger	<i>to</i>	Top Right
Light Blue		blow off mat	<i>to</i>	the right
Orange	<i>with any hand</i>	flick to	<i>to</i>	Top Left

SAH Option 22

Orange	<i>with</i>	Pen		Top Right
Red	<i>with</i>	Ruler		Any centre block
Light Blue	<i>with</i>	anything short		Bottom Right
Dark Blue	<i>with</i>	Eraser		Bottom Left
Yellow	<i>with</i>	anything long		Any centre block
Green	<i>with</i>	Pencil		Top Left

SAH Option 23

Dark Blue	<i>with</i>	Left elbow	<i>to</i>	Bottom Right
Orange	<i>with</i>	Right thumb	<i>to</i>	Top Left
Green	<i>with</i>	Right ear	<i>to</i>	Bottom Left
Red	<i>with</i>	Left index finger	<i>to</i>	Top Right
Yellow		blow off mat	<i>to</i>	the right
Light Blue	<i>with any hand</i>	flick to	<i>to</i>	Any centre block

SAH Option 24

Light Blue	<i>with</i>	Red Brick	<i>to</i>	Bottom Right
Red	<i>with</i>	Yellow Brick	<i>to</i>	Bottom Left
Yellow	<i>with</i>	Light Blue Brick	<i>to</i>	Top Left
Green	<i>with</i>	Dark Blue Brick	<i>to</i>	Top Right
Dark Blue	<i>with</i>	Orange Brick	<i>to</i>	Any centre block
Orange	<i>with</i>	Green Brick	<i>to</i>	Any centre block

2 instructions at a time

SAH Option 25

Orange	<i>with</i> thumb	Top Right
Yellow	<i>with</i> ring finger	Any centre block
Red	<i>with</i> elbow	Bottom Right
Green	<i>with</i> back of hand	Top Left

2 instructions at a time

SAH Option 26

Yellow	<i>with</i> baby finger	Top Right
Red	<i>with</i> thumb	Any centre block
Green	<i>with</i> palm	Bottom Right
Dark Blue	<i>with</i> nose	Top Left
Orange	<i>with</i> ring finger	Any centre block
Light Blue	<i>with</i> both hands	Bottom Left

3 instructions at a time

SAH Option 27

Yellow	Left elbow	Top Right
Red	Left index finger	Bottom Left
Orange	blow off mat	to the right
Dark Blue	Right ear	Top Left
Light Blue	Right thumb	Any centre block
Green	flick (any hand)	Bottom Right

3 instructions at a time

SAH Option 28

Red	Left thumb	Top Right
Yellow	flick (any hand)	Bottom Left
Light Blue	blow off mat	to the right
Green	blow off mat	to the left
Dark Blue	Right both Hands	Any centre block
Orange	Left baby finger	Bottom Right

3 instructions at a time

SAH Option 29

Green	Left elbow	Top Right
Orange	Left index finger	Any centre block
Red	Right baby finger	Any centre block
Dark Blue	Right index finger	Top Left
Light Blue	Right thumb	Bottom Right
Yellow	left ring finger	Bottom Left

3 instructions at a time

SAH Option 30

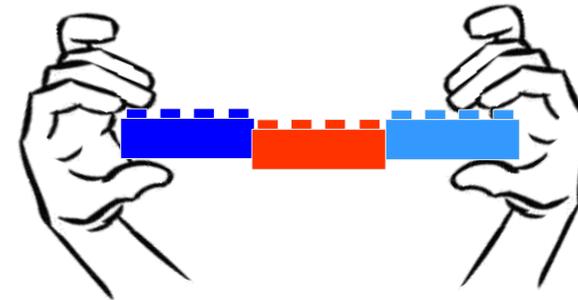
Orange	Left hand	Top Right
Light Blue	blow off mat	to the top
Green	Right thumb	Any centre block
Yellow	Right index finger	Top Left
Dark Blue	Left thumb	Bottom Right
Red	left ring finger	Bottom Left

SAH Extra Option 1

Orange	with	Light Blue	and	Pen	to	Top Right
Red	with	Green	and	Ruler	to	Any centre block
Light Blue	with	Orange	and	anything short	to	Bottom Right
Dark Blue	with	Yellow	and	Eraser	to	Bottom Left
Yellow	with	Green	and	anything long	to	Any centre block
Green	with	Dark Blue	and	Pencil	to	Top Left

SAH Extra Option 2

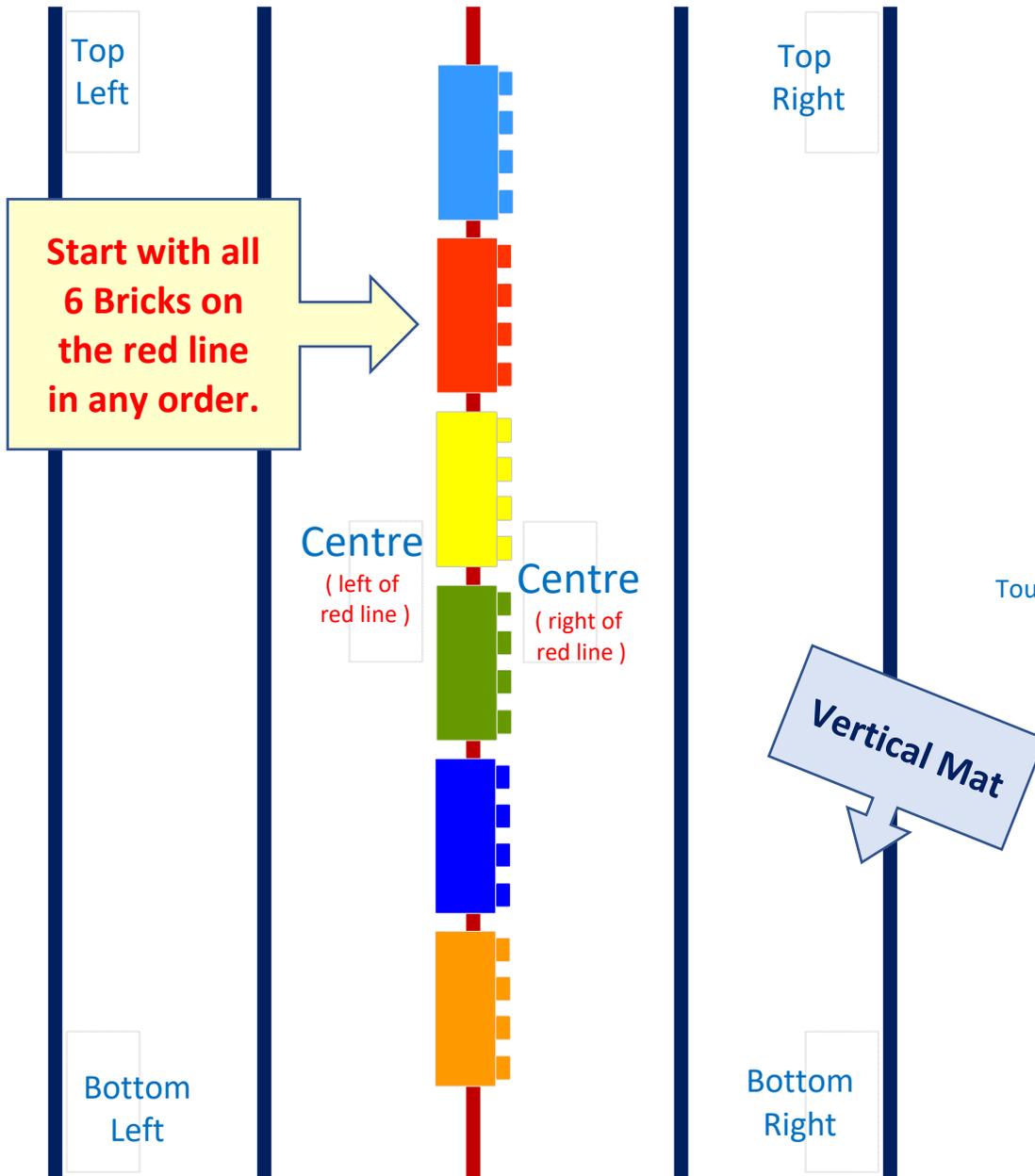
Yellow	with	Light Blue	and	Green	to	Bottom Right
Green	with	Red	and	Dark Blue	to	Any centre block
Dark Blue	with	Orange	and	Red	to	Bottom Left
Red	with	Yellow	and	Light Blue	to	Top Right
Light Blue	with	Green	and	Red	to	the right
Orange	with	Dark Blue	and	Light Blue	to	Top Left



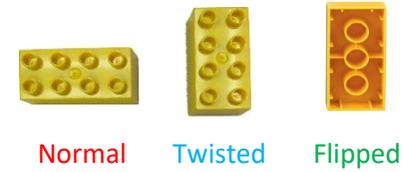
Use two bricks to lift and move a third brick

SAH Extra Option 3

Light Blue	with	Yellow	and	Green	to	Bottom Right
Red	with	Orange	and	Dark Blue	to	Bottom Left
Yellow	with	Orange	and	Red	to	Top Left
Green	with	Yellow	and	Light Blue	to	Top Right
Dark Blue	with	Green	and	Red	to	Any centre block
Orange	with	Dark Blue	and	Green	to	Any centre block



Crossing the B-Line Spatial Awareness



Twist = Twist brick by 90 degrees
 Flip = Turned upside down (*studs on mat*)

Touching = Bricks just touching each other



SAV Option 1

Light Blue	Top Right
Green	Centre / above red line
Orange	Bottom Right
Red	Bottom Left
Dark Blue	Centre / below red line
Yellow	Top Left

SAV Option 2

Red	Top Right
Orange	Centre / left of red line
Green	Bottom Right
Dark Blue	Centre / right of red line
Yellow	Top Left
Light Blue	Bottom Left

SAV Option 3

Yellow	Bottom Left
Dark Blue	Centre / left of red line
Red	Join - on top of Green
Orange	Centre / right of red line
Light Blue	Touching Yellow
Green	Join - under Yellow

SAV Option 4

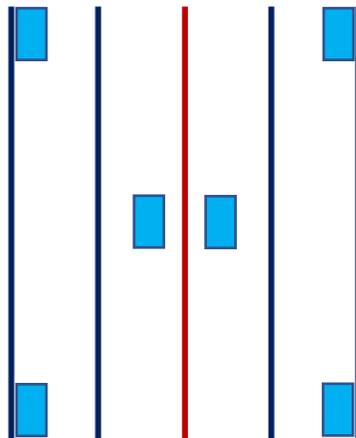
Red	Bottom Right
Dark Blue	Top Left
Light Blue	On top of Red
Yellow	Below Dark Blue
Green	Centre / below red line
Orange	Touching Yellow

SAV Option 5

Yellow	Centre / right of red line
Green	Top Left
Light Blue	Bottom Right
Dark Blue	Centre / left of red line
Orange	Bottom Left
Red	Top Right

SAV Option 6

Green	Bottom Right
Yellow	Top Left
Dark Blue	On top of Red
Orange	Below Dark Blue
Light Blue	Centre / left of red line
Red	Touching Green



Variations and options for these activities :

use only both index fingers - lift and place - no sliding
right hand behind back / left hand behind back
high 5 - keep hands stuck together - use other hands only
use a pencil / stick / peg / chopsticks
pick up with thumb and baby finger - lift and place - no sliding
one hand on head / finger on nose / finger on lips / hand tapping head

With Partners :

must both be touching any brick to move / place it

SAV Option 7

Light Blue Top Right
Green Centre / right of red line

Pause for 1st movements

Orange Bottom Right
Red Bottom Left

Pause for 2nd movements

Dark Blue Centre / left of red line
Yellow Top Left

Pause for last movements

SAV Option 8

Red Bottom Right
Dark Blue Top Left

Pause for 1st movements

Light Blue On top of Red
Yellow Below Dark Blue

Pause for 2nd movements

Green Any centre block
Orange Touching Yellow

Pause for last movements

SAV Option 9

Red Top Right
Orange Centre / right of red line

Pause for 1st movements

Green Bottom Right
Dark Blue Centre / left of red line

Pause for 2nd movements

Yellow Top Left
Light Blue Bottom Left

Pause for last movements

SAV Option 10

Yellow Centre / right of red line
Green Top Left
Light Blue Bottom Right

Pause for 1st movements

Dark Blue Centre / left of red line
Orange Bottom Left
Red Top Right

Pause for last movements

SAV Option 11

Orange Centre / left of red line
Green Top Left
Red Bottom Right

Pause for 1st movements

Yellow Centre / right of red line
Dark Blue Bottom Left
Light Blue Top Right

Pause for last movements

SAV Option 12

Dark Blue Bottom Right
Light Blue Top Left
Yellow On top of Red

Pause for 1st movements

Green Below Dark Blue
Red Any centre block
Orange Touching Green

Pause for last movements

Variations and options for these activities :

see variations on previous page

come up with your own ideas

ask the children to come up with some ideas

SAV Option 13

Yellow Bottom Left
Red Top Right
Light Blue Top Left
Green Bottom Right

Pause for attempt 1

option to repeat

Pause for attempt 2

SAV Option 14

Red Bottom Left
Dark Blue Top Right
Light Blue Top Left
Orange Bottom Right

Pause for attempt 1

option to repeat

Pause for attempt 2

SAV Option 15

Green Bottom Left
Red Top Right
Orange Top Left
Yellow Bottom Right

Pause for attempt 1

option to repeat

Pause for attempt 2

SAV Option 16

Yellow Bottom Left
Orange Any centre block
Red Top Left
Green Any centre block

Pause for attempt 1

option to repeat

Pause for attempt 2

SAV Option 17

Green Bottom Right
Yellow Any centre block
Dark Blue Bottom Left
Orange Top Left
Light Blue Top Right

Pause for attempt 1

option to repeat

Pause for attempt 2

SAV Option 18

Red Top Right
Orange Centre / right of red line
Green Bottom Right
Dark Blue Centre / left of red line
Yellow Top Left
Light Blue Bottom Left

Pause for attempt 1

option to repeat

Pause for attempt 2

SAV Option 19

Orange	<i>with</i>	thumb	<i>to</i>	Top Right
Red	<i>with</i>	ring finger	<i>to</i>	Any centre block
Light Blue	<i>with</i>	elbow	<i>to</i>	Bottom Right
Dark Blue	<i>with</i>	back of hand	<i>to</i>	Bottom Left
Yellow	<i>with</i>	nose	<i>to</i>	Any centre block
Green	<i>with</i>	chin	<i>to</i>	Top Left

SAV Option 20

Red	<i>with</i>	thumb	<i>to</i>	Bottom Left
Green	<i>with</i>	baby finger	<i>to</i>	Any centre block
Yellow	<i>with</i>	wrist	<i>to</i>	Top Right
Dark Blue	<i>with</i>	shoulder	<i>to</i>	Top Left
Orange	<i>with</i>	chin	<i>to</i>	Bottom Left
Light Blue	<i>with</i>	shoulder	<i>to</i>	Any centre block

SAV Option 21

Yellow	<i>with</i>	Left elbow	<i>to</i>	Bottom Right
Green	<i>with</i>	Right thumb	<i>to</i>	Any centre block
Dark Blue	<i>with</i>	Right ear	<i>to</i>	Bottom Left
Red	<i>with</i>	Left index finger	<i>to</i>	Top Right
Light Blue		blow off mat	<i>to</i>	the right
Orange	<i>with any hand</i>	flick to	<i>to</i>	Top Left

SAV Option 22

Orange	<i>with</i>	Pen		Top Right
Red	<i>with</i>	Ruler		Any centre block
Light Blue	<i>with</i>	anything short		Bottom Right
Dark Blue	<i>with</i>	Eraser		Bottom Left
Yellow	<i>with</i>	anything long		Any centre block
Green	<i>with</i>	Pencil		Top Left

SAV Option 23

Dark Blue	<i>with</i>	Left elbow	<i>to</i>	Bottom Right
Orange	<i>with</i>	Right thumb	<i>to</i>	Top Left
Green	<i>with</i>	Right ear	<i>to</i>	Bottom Left
Red	<i>with</i>	Left index finger	<i>to</i>	Top Right
Yellow		blow off mat	<i>to</i>	the right
Light Blue	<i>with any hand</i>	flick to	<i>to</i>	Any centre block

SAV Option 24

Light Blue	<i>with</i>	Red Brick	<i>to</i>	Bottom Right
Red	<i>with</i>	Yellow Brick	<i>to</i>	Bottom Left
Yellow	<i>with</i>	Light Blue Brick	<i>to</i>	Top Left
Green	<i>with</i>	Dark Blue Brick	<i>to</i>	Top Right
Dark Blue	<i>with</i>	Orange Brick	<i>to</i>	Any centre block
Orange	<i>with</i>	Green Brick	<i>to</i>	Any centre block

2 instructions at a time

SAV Option 25

Orange	with thumb	Top Right
Yellow	with ring finger	Any centre block
Red	with elbow	Bottom Right
Green	with back of hand	Top Left

2 instructions at a time

SAV Option 26

Yellow	with baby finger	Top Right
Red	with thumb	Any centre block
Green	with palm	Bottom Right
Dark Blue	with nose	Top Left
Orange	with ring finger	Any centre block
Light Blue	with both hands	Bottom Left

3 instructions at a time

SAV Option 27

Yellow	Left elbow	Top Right
Red	Left index finger	Bottom Left
Orange	blow off mat	to the right
Dark Blue	Right ear	Top Left
Light Blue	Right thumb	Any centre block
Green	flick (any hand)	Bottom Right

3 instructions at a time

SAV Option 28

Red	Left thumb	Top Right
Yellow	flick (any hand)	Bottom Left
Light Blue	blow off mat	to the right
Green	blow off mat	to the left
Dark Blue	Right both Hands	Any centre block
Orange	Left baby finger	Bottom Right

3 instructions at a time

SAV Option 29

Green	Left elbow	Top Right
Orange	Left index finger	Any centre block
Red	Right baby finger	Any centre block
Dark Blue	Right index finger	Top Left
Light Blue	Right thumb	Bottom Right
Yellow	left ring finger	Bottom Left

3 instructions at a time

SAV Option 30

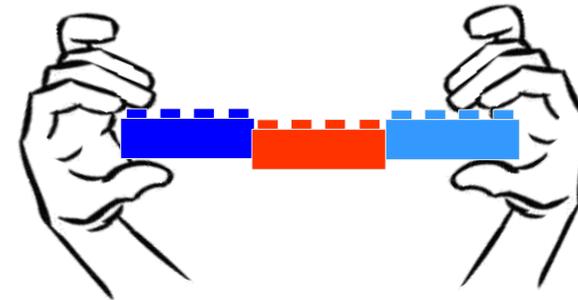
Orange	Left hand	Top Right
Light Blue	blow off mat	to the top
Green	Right thumb	Any centre block
Yellow	Right index finger	Top Left
Dark Blue	Left thumb	Bottom Right
Red	left ring finger	Bottom Left

SAH Extra Option 1

Orange	with	Light Blue	and	Pen	to	Top Right
Red	with	Green	and	Ruler	to	Any centre block
Light Blue	with	Orange	and	anything short	to	Bottom Right
Dark Blue	with	Yellow	and	Eraser	to	Bottom Left
Yellow	with	Green	and	anything long	to	Any centre block
Green	with	Dark Blue	and	Pencil	to	Top Left

SAH Extra Option 2

Yellow	with	Light Blue	and	Green	to	Bottom Right
Green	with	Red	and	Dark Blue	to	Any centre block
Dark Blue	with	Orange	and	Red	to	Bottom Left
Red	with	Yellow	and	Light Blue	to	Top Right
Light Blue	with	Green	and	Red	to	the right
Orange	with	Dark Blue	and	Light Blue	to	Top Left

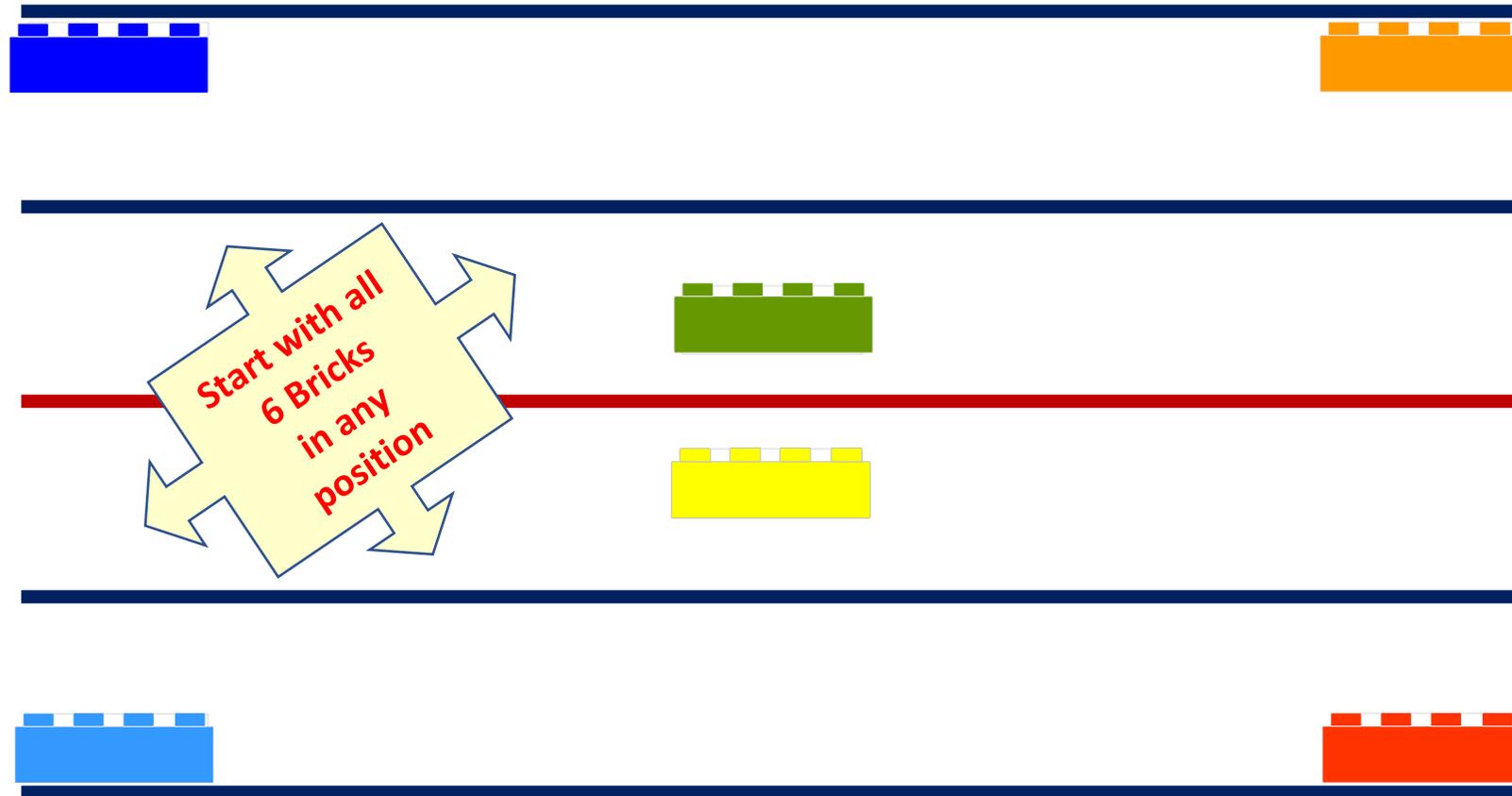


Use two bricks to lift and move a third brick

SAH Extra Option 3

Light Blue	with	Yellow	and	Green	to	Bottom Right
Red	with	Orange	and	Dark Blue	to	Bottom Left
Yellow	with	Orange	and	Red	to	Top Left
Green	with	Yellow	and	Light Blue	to	Top Right
Dark Blue	with	Green	and	Red	to	Any centre block
Orange	with	Dark Blue	and	Green	to	Any centre block

Crossing the B-Line : Working Memory

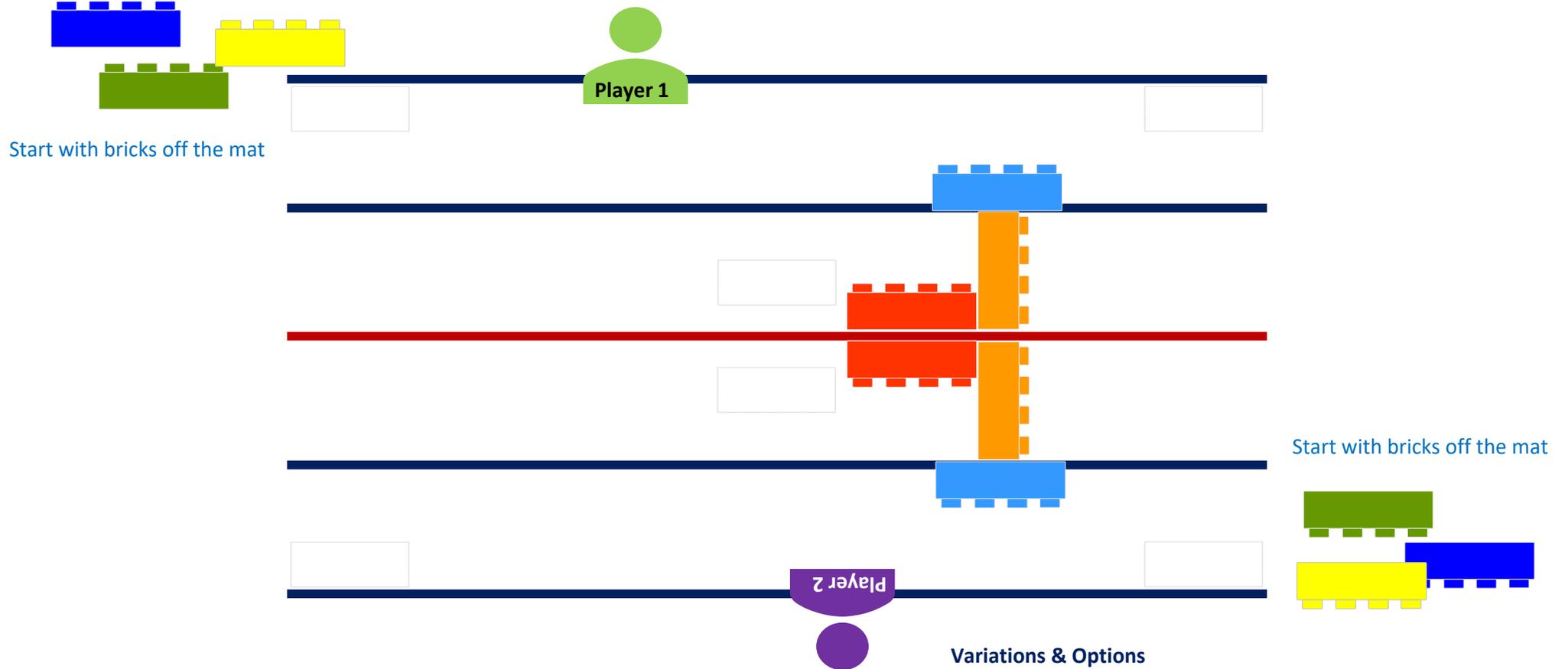


- Can work in pairs / with a partner / with the teacher / with a parent
- First person : memorizes the layout - then looks away when ready
- Next person : swops (by moving) two of the bricks
- First person : tries to identify which two bricks were swopped

Variations & Options

*Second person makes a model of the original layout (to check)
Advance to changing 3 bricks , then eventually more bricks*

Crossing the B-Line : Symmetry



Can work in pairs / with a partner / with the teacher / with a parent

- Player 1 : lays down a starting brick in any orientation touching the red line
 - Player 2 : lays down the same colour brick to mirror the first brick
 - Player 1 : adds bricks one at a time to create a pattern
 - Player 2 : lays down the same colour bricks to complete the mirror image / pattern
- After completing - Player 2 has a turn to start and build a pattern

Variations & Options

advance to not starting on the red line

advance to 2, then 3, 4, 5 and eventually 6 bricks at a time

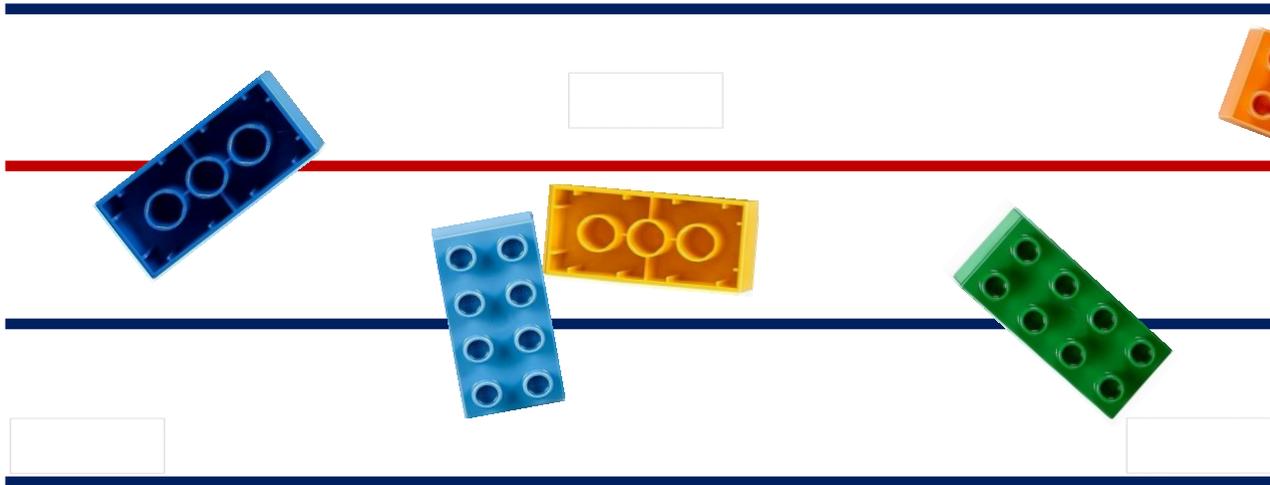
Crossing the B-Line : **Sorting**

Can play with
Horizontal or Vertical Mat



Collect all 6 loose bricks
in your hands.

Start by dropping your bricks
onto the mat
from above the red line



- Drop all the bricks in one go - from 20cm above the **Red** line

Questions to ask :

- - how many bricks landed on a line ?
- - how many bricks landed between lines ?
- - how many bricks landed on their side ?
- - how many bricks land upside down - on their studs ?
- - how many bricks landed to the (left or right of) (above or below) the red line ?
- - how many bricks landed off the mat ?
- - how many bricks touched line No. 1 / 2 / 3 / 5 - grey rectangles ?
- - (If line 1 = 1, line 2 = 2, etc) what is the value of the bricks touching lines ?
- - how many studs are facing up / down / to the side ?

Variations & Options

- Move all HOT coloured bricks - (above) (to left of) the red line
- Move all COLD coloured bricks - (below) (to right of) the red line
- Throw individual bricks onto mat from a distance
(award points for landing on the red line)
(award points for landing on lines or for the way the bricks land - etc)
- Throw individual bricks onto mat from a distance
(in groups of 2/3or 6 - give each person a colour to play with)
(bricks on mat count - if you touch another brick - it is out)