

SYMMETRY
WORKING MEMORY
SPATIAL

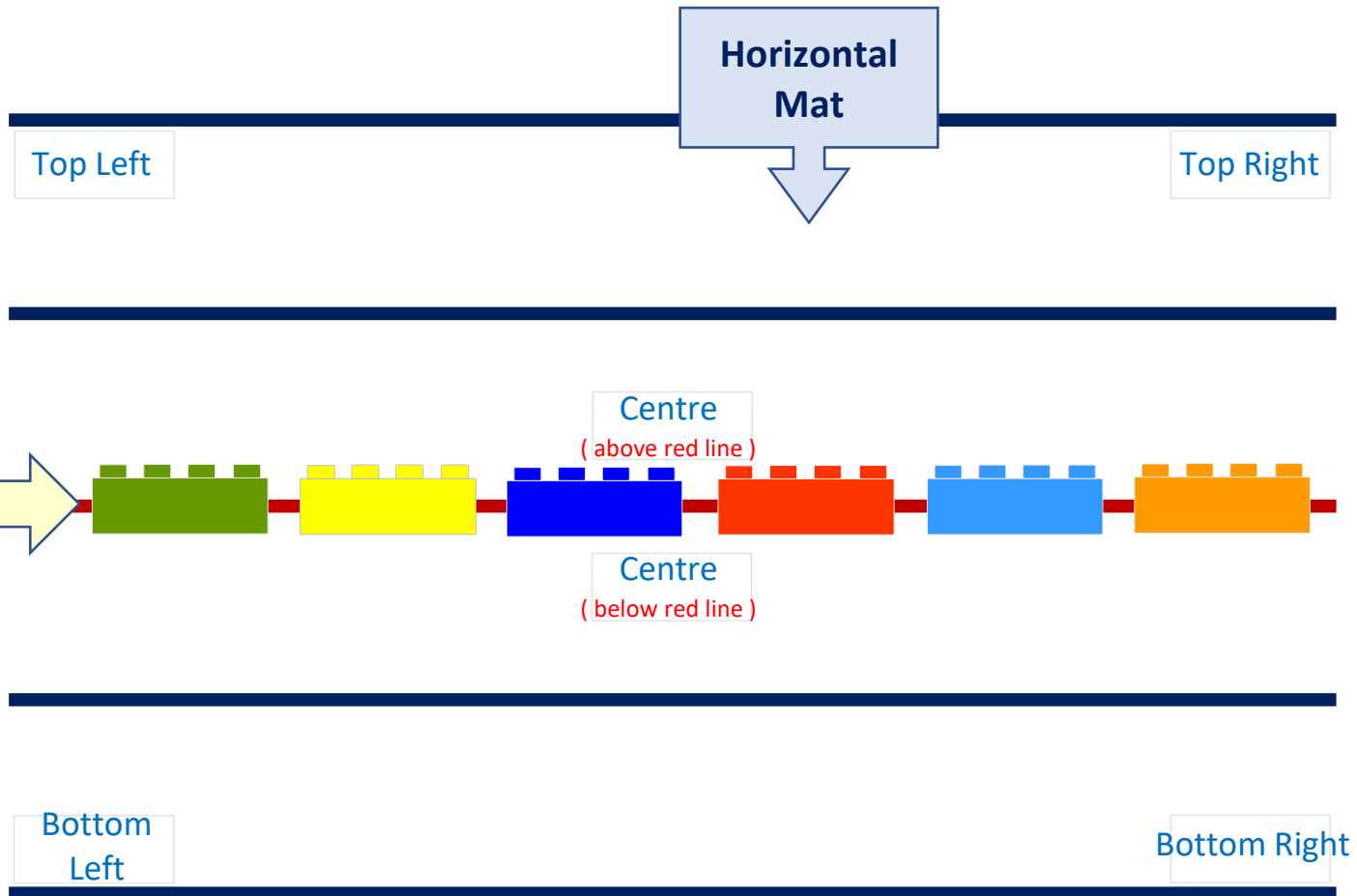
Six Bricks

Crossing the B-Line

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



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

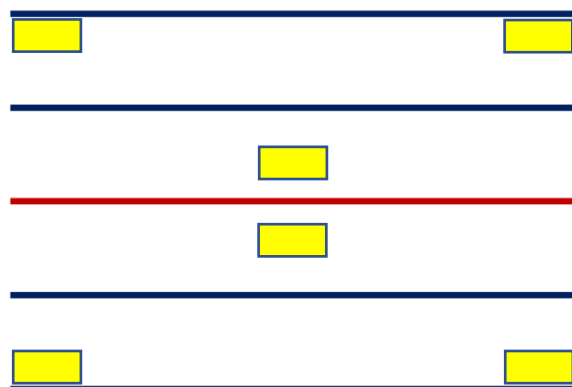
Red	Bottom Right
Dark Blue	Top Left
Light Blue	On top of Red
Yellow	Below Dark Blue
Green	Centre / below red line
Orange	Touching Yellow

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
Pause for 1st movements	
Orange	Bottom Right
Red	Bottom Left
Pause for 2nd movements	
Dark Blue	Centre / below red line
Yellow	Top Left
Pause for last movements	

SAH 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	

SAH Option 9

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

SAH Option 10

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

SAH Option 11

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

SAH 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

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

SAH Option 20

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

SAH Option 21

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

SAH Option 22

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

SAH Option 23

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

SAH Option 24

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

2 instructions at a time

SAH 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

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 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

2 instructions at a time

SAH 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

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 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

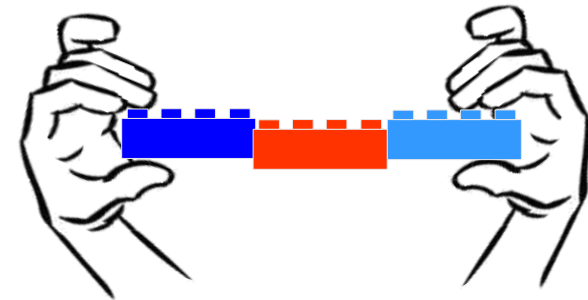
Orange	with	Light Blue	and	Pen	to	Top Right
Red	with	Green	and	Ruler	to	Any centre block
Light Blue	with	Orange	and	anything short	to	Bottom Right
Dark Blue	with	Yellow	and	Eraser	to	Bottom Left
Yellow	with	Green	and	anything long	to	Any centre block
Green	with	Dark Blue	and	Pencil	to	Top Left

SAH Extra Option 2

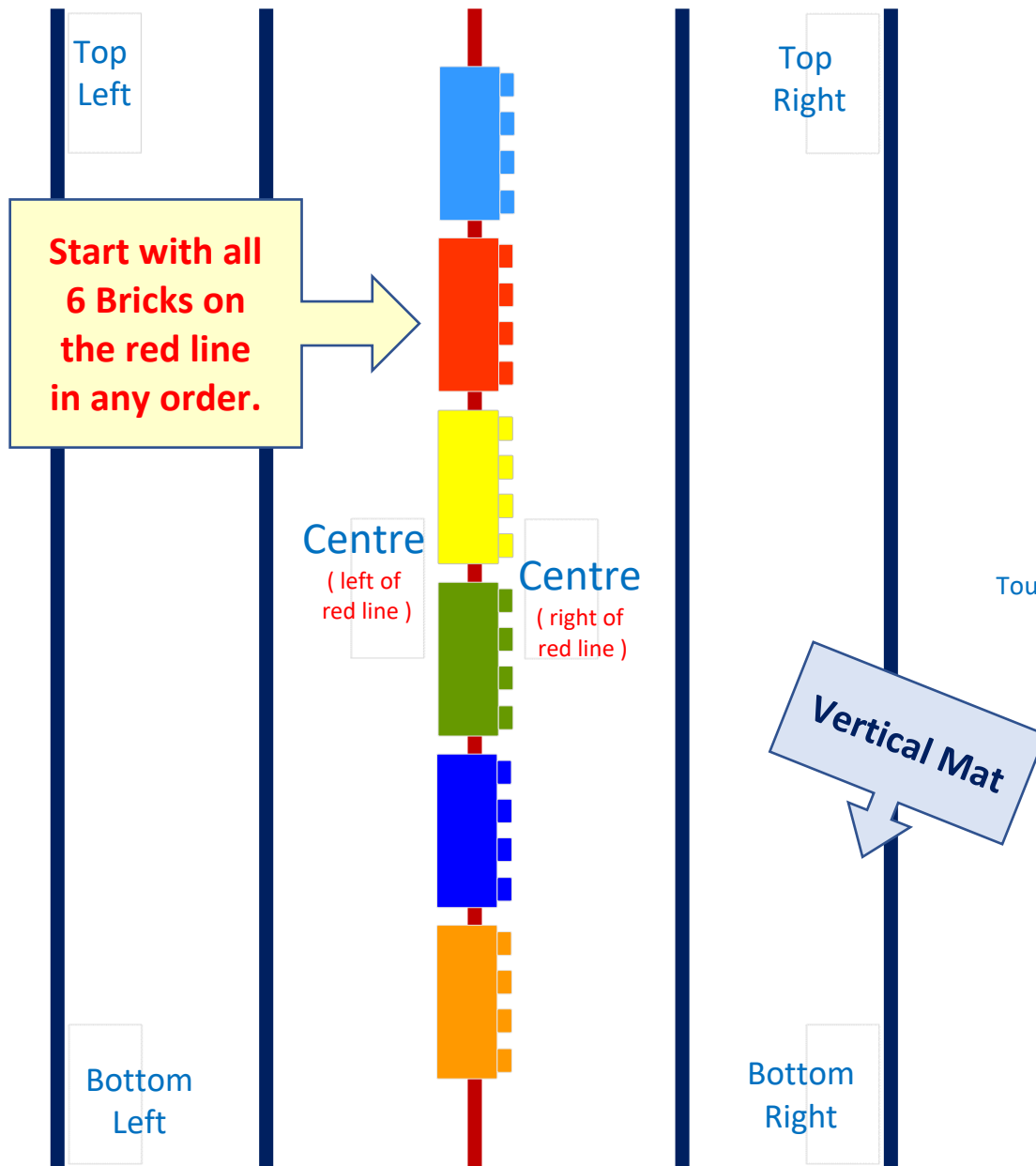
Yellow	with	Light Blue	and	Green	to	Bottom Right
Green	with	Red	and	Dark Blue	to	Any centre block
Dark Blue	with	Orange	and	Red	to	Bottom Left
Red	with	Yellow	and	Light Blue	to	Top Right
Light Blue	with	Green	and	Red	to	the right
Orange	with	Dark Blue	and	Light Blue	to	Top Left

SAH Extra Option 3

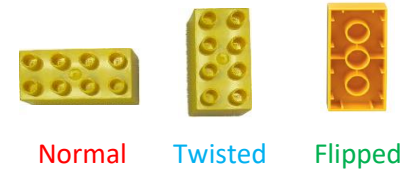
Light Blue	with	Yellow	and	Green	to	Bottom Right
Red	with	Orange	and	Dark Blue	to	Bottom Left
Yellow	with	Orange	and	Red	to	Top Left
Green	with	Yellow	and	Light Blue	to	Top Right
Dark Blue	with	Green	and	Red	to	Any centre block
Orange	with	Dark Blue	and	Green	to	Any centre block



Use two bricks to lift and move a third brick



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

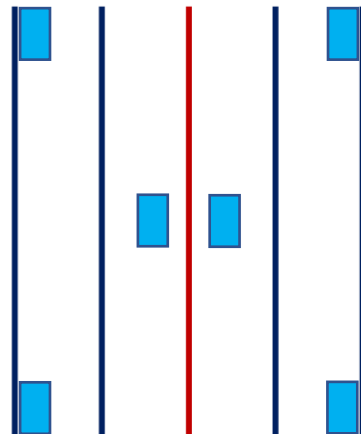
Red	Bottom Right
Dark Blue	Top Left
Light Blue	On top of Red
Yellow	Below Dark Blue
Green	Centre / below red line
Orange	Touching Yellow

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

SAV 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>	

SAV Option 9

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

SAV Option 10

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

SAV Option 11

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

SAV 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

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

SAV Option 20

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

SAV Option 21

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

SAV Option 22

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

SAV Option 23

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

SAV Option 24

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

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 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

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 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 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

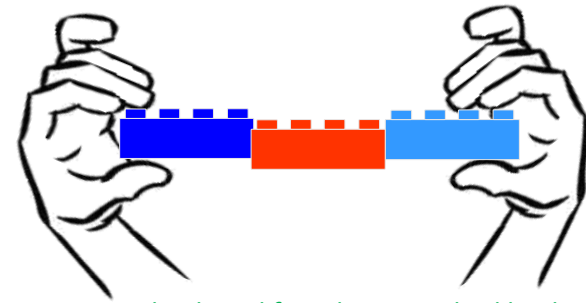
Orange	with	Light Blue	and	Pen	to	Top Right
Red	with	Green	and	Ruler	to	Any centre block
Light Blue	with	Orange	and	anything short	to	Bottom Right
Dark Blue	with	Yellow	and	Eraser	to	Bottom Left
Yellow	with	Green	and	anything long	to	Any centre block
Green	with	Dark Blue	and	Pencil	to	Top Left

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

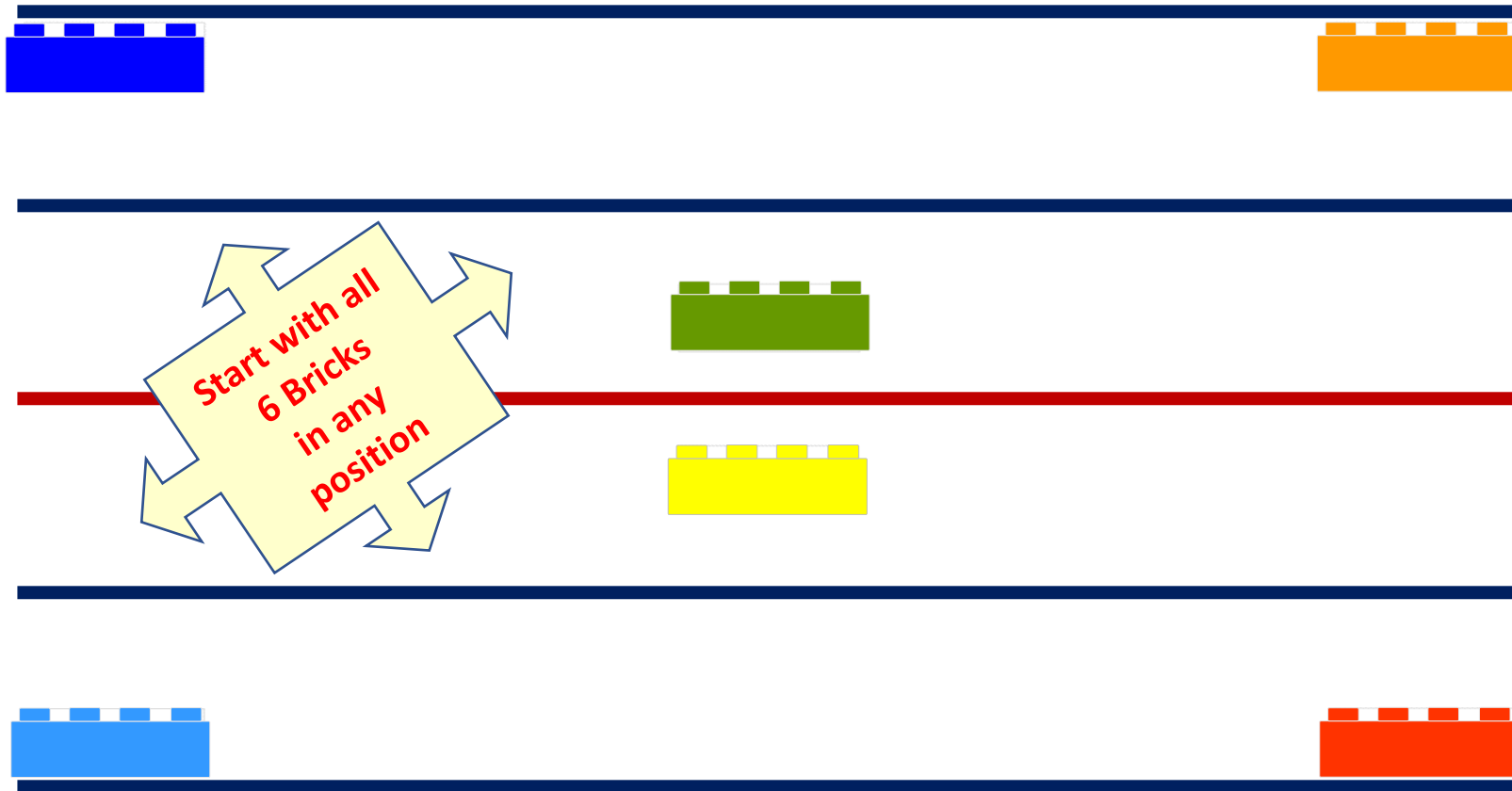
SAH Extra Option 3

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



Use two bricks to lift and move a third brick

Crossing the B-Line : Working Memory

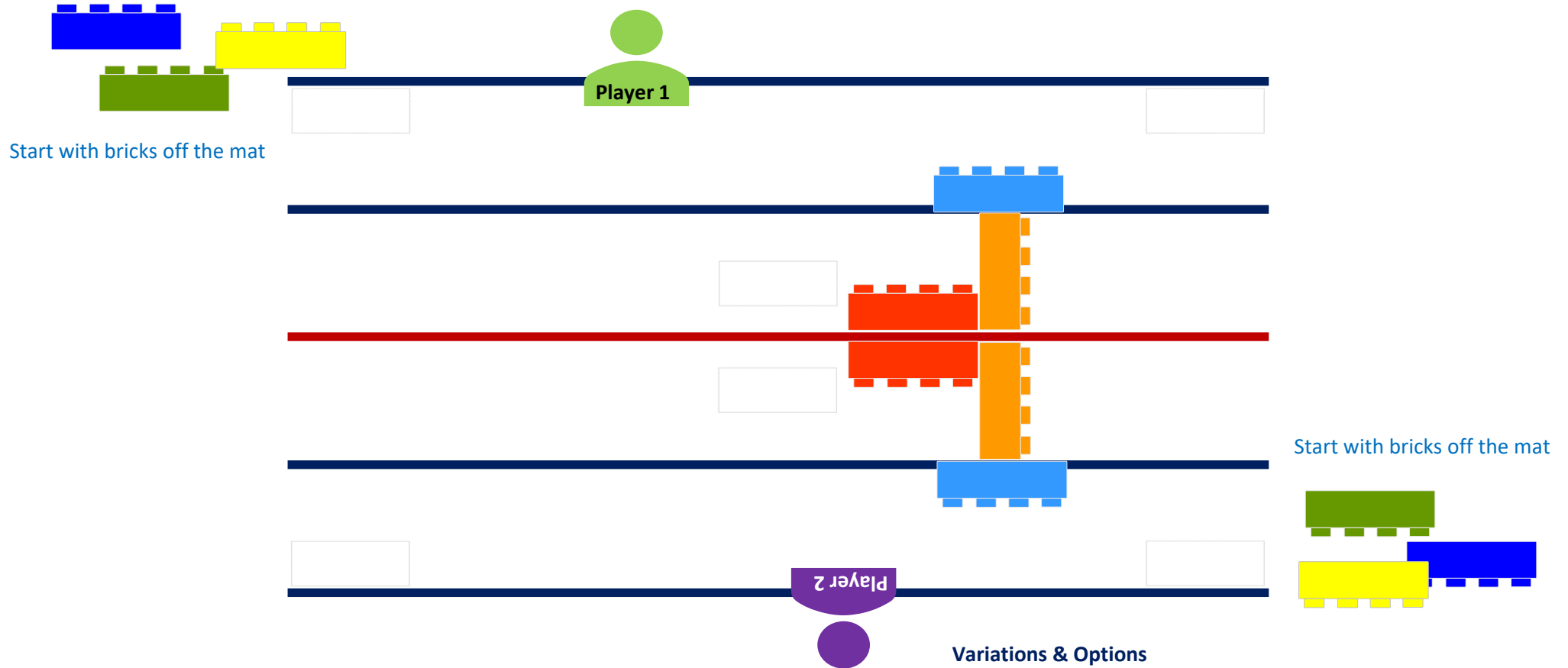


Variations & Options

- 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

*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

advance to not starting on the red line

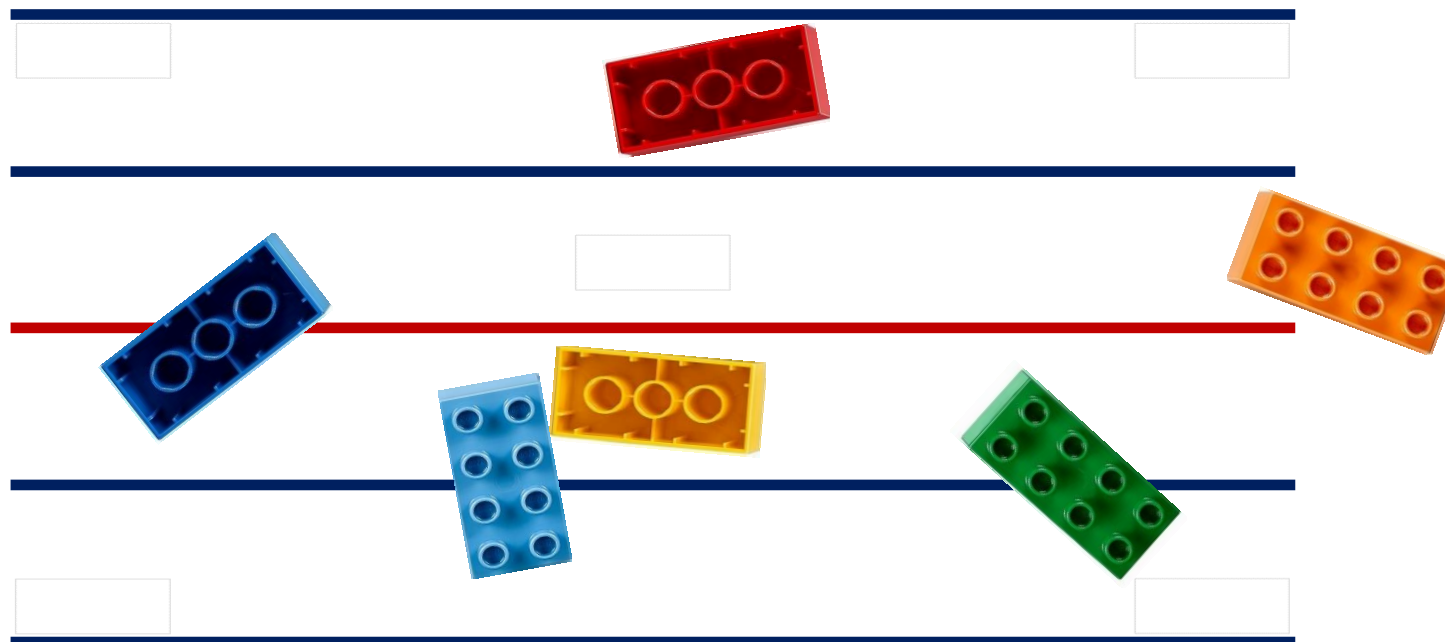
advance to 2, then 3, 4, 5 and eventually 6 bricks at a time

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)