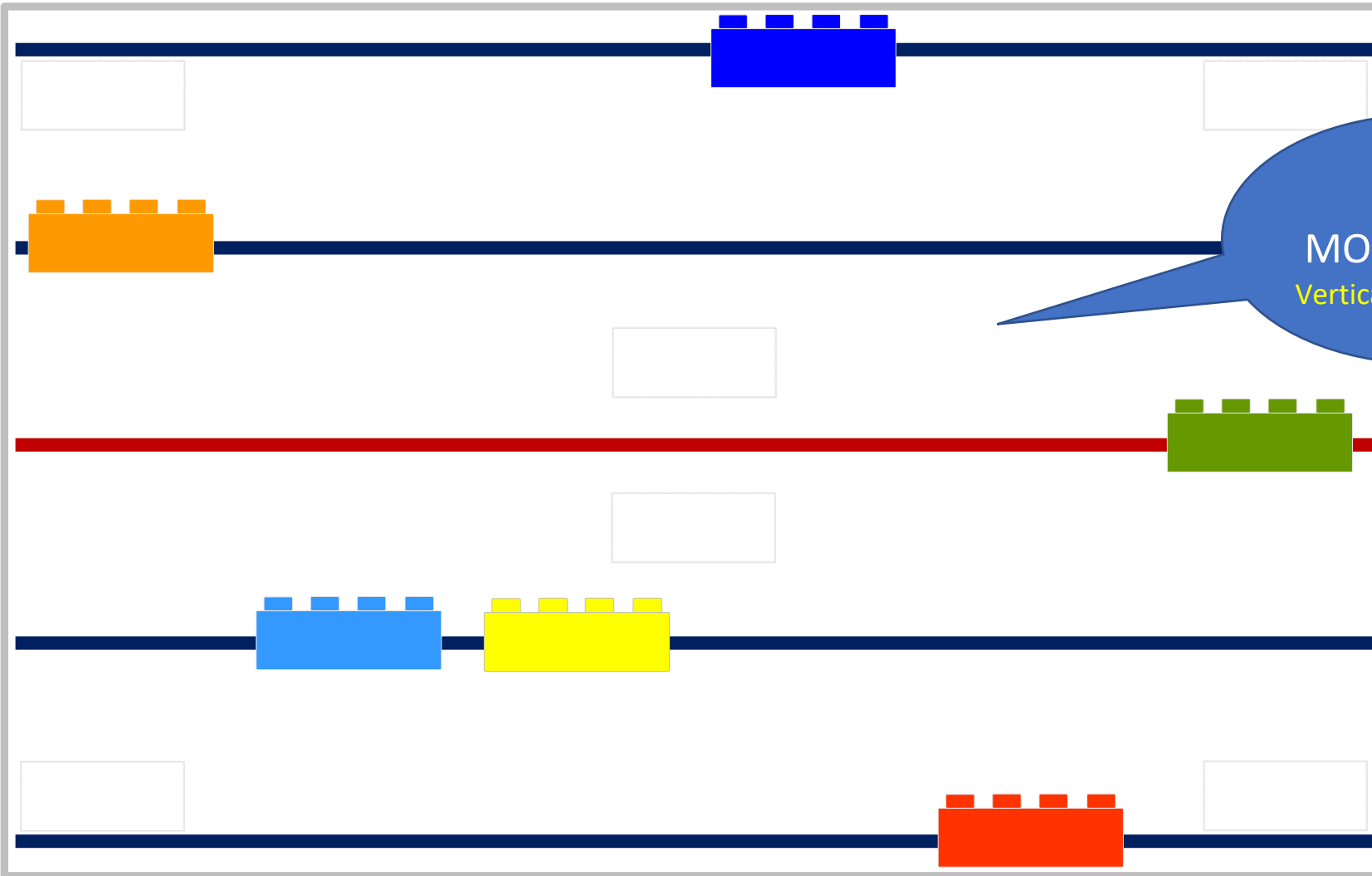




BASIC
MOVEMENTS
Vertical & Horizontal

(up, down, forward, backward, left, right, in front of, behind, to the left of, to the right of, on top of, twist & flip)

Six Bricks

Crossing the B-Line



Crossing the B-Line : Working with Partners - Same Side

Options / Variations for all games

With or Without Partners

- depending on ages - use : Up & Down / Forward & Backward
- try the exercises with auditory input (*download App*)
(*great for teacher to watch the children and their movements*)
- ask children to try and read the instructions to each other
 - initially in groups - and then to the whole class
- ask children to turn away from mat (backs to mat)
and only turn back to move bricks after each instruction

Extra Materials / Finger Fun

- to move bricks : use a pencil / stick / straw / peg / chopsticks
- to move bricks : use thumb and baby finger - lift - no sliding
- to move bricks : use only both index fingers - lift - no sliding
- one hand on head / one hand behind back / finger on nose

Advanced

- wait for 2/3/4 instructions **before** moving bricks
(*no touching till after last instruction*)
- do all movement commands in **reverse**



With Partners

- players hold hands together and use other hand only
(*glued high five*)
- players must move bricks together
(*can only move bricks if both touching it*)
- one player only moves forward - the other only moves backwards
- one player only moves left - the other only moves right
- one player only moves blues - the other moves all the rest
- player 1 uses player 2's bricks and 2 uses player 1's
(*have to lean over each other - don't move*)
- both players do all movement commands in **reverse**
(*have to lean over each other*)
- player 1 uses 1 of player 2's bricks and player 2 uses 1 of player 1's
(*let them decide - have to lean over each other*)

Advanced

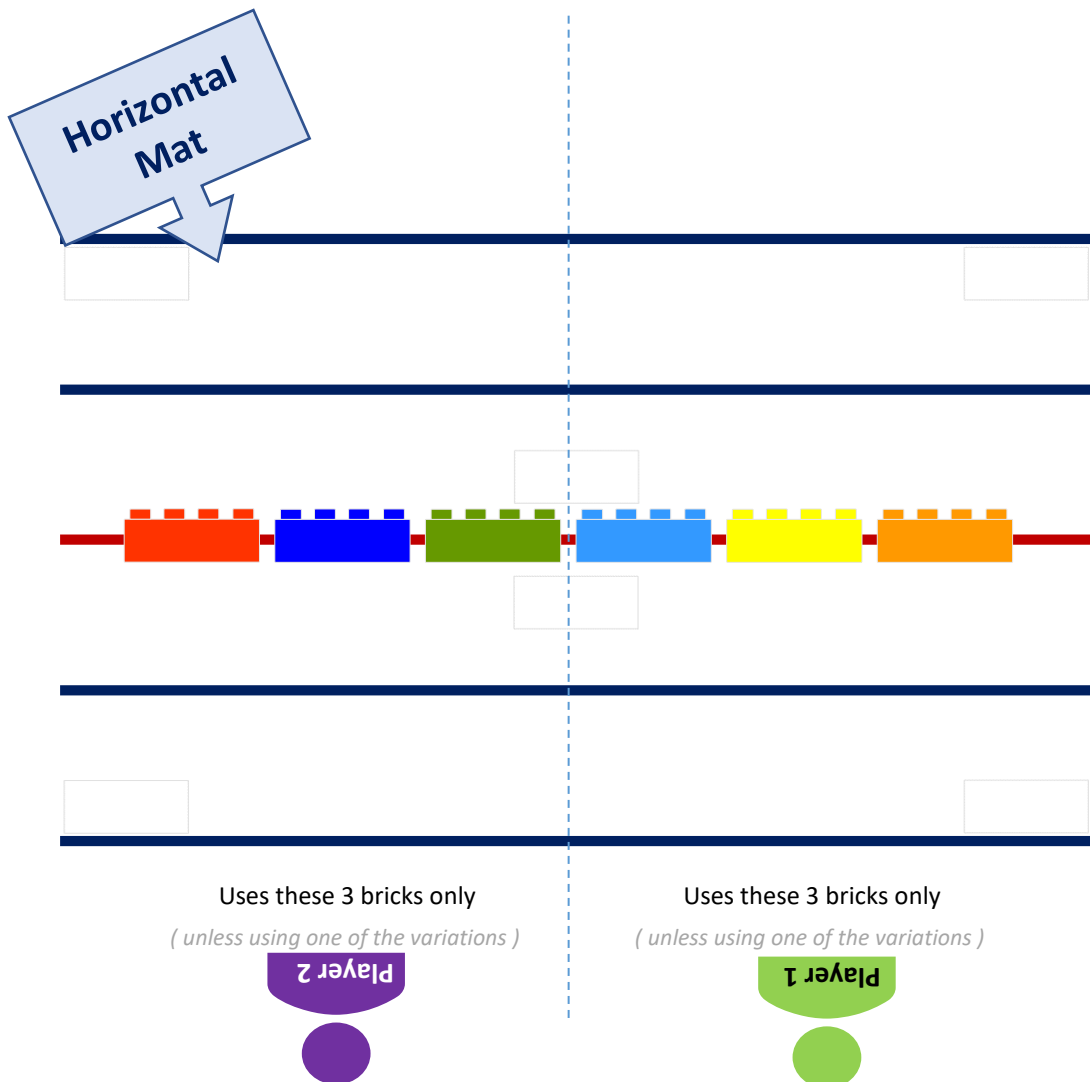
- wait for 2/3/4 instructions **before** moving bricks
(*no touching till after last instruction*)
- players move their bricks until the bricks are off the red line - then :
player 1 controls / moves any bricks on his 2 blue lines (top or left)
player 2 controls / moves any bricks on his 2 blue lines (bottom or right)
- **player 1 or player 2** does all movement commands in **reverse**

Crossing the B-Line : Working with Partners - Same Side

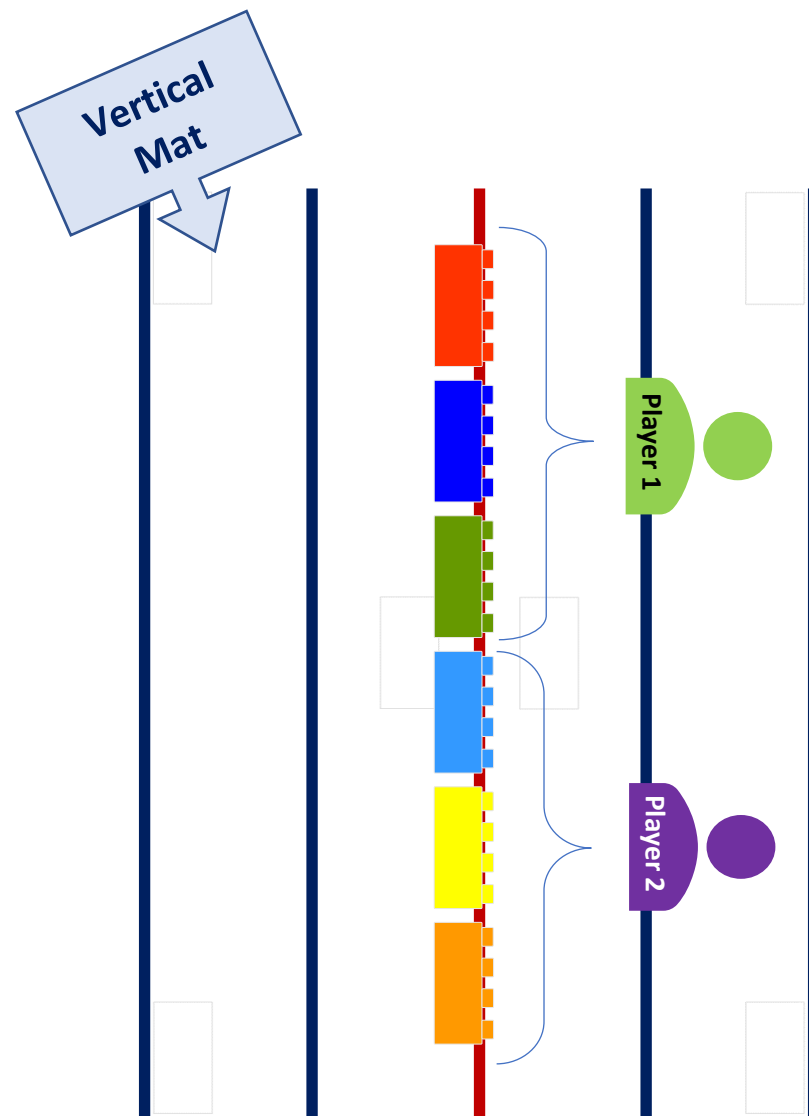
Great option if you only have a few mats - or if you want people to work in pairs.

To be used with : **Normal horizontal & vertical movement Templates**

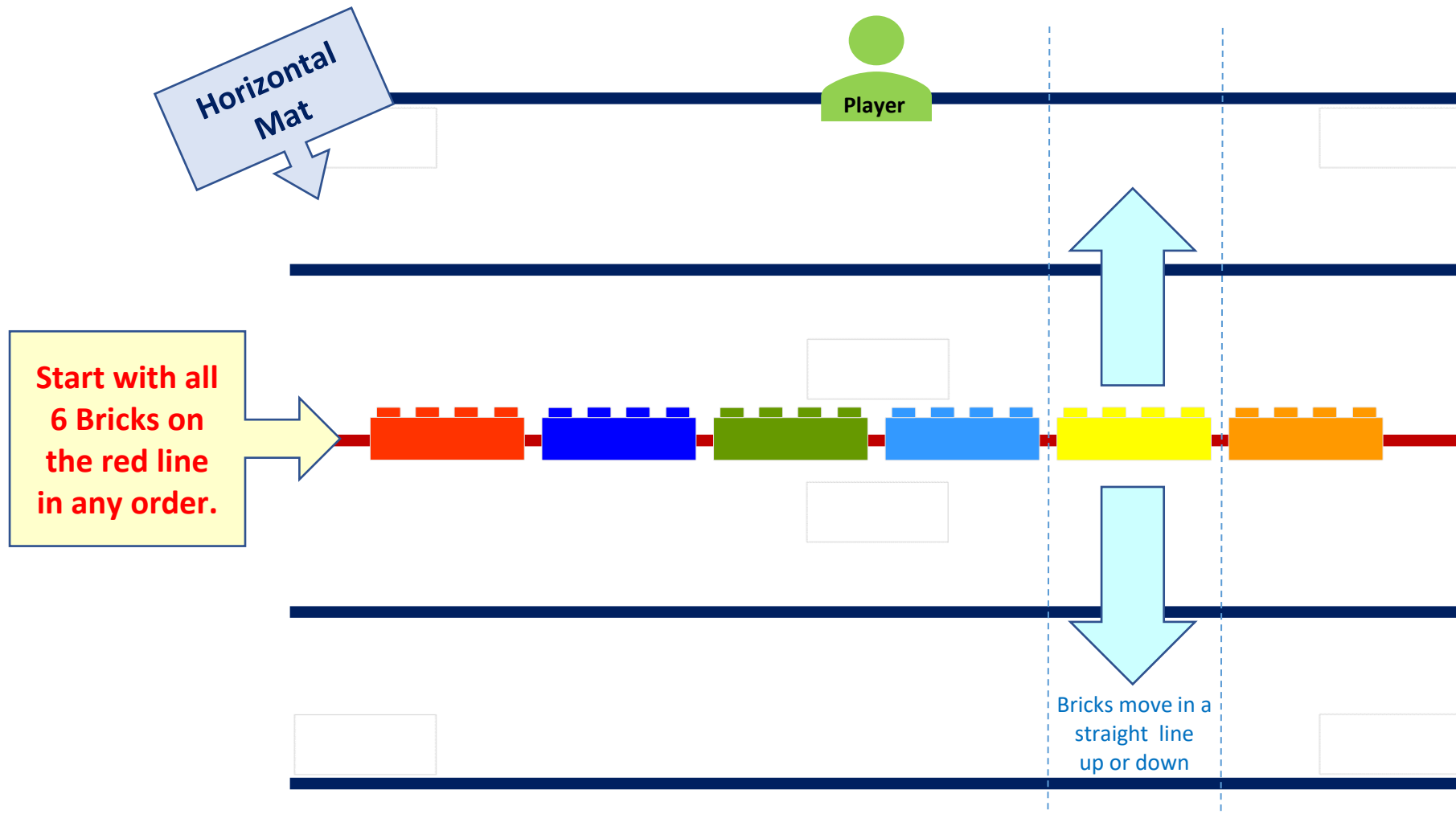
Same side of table



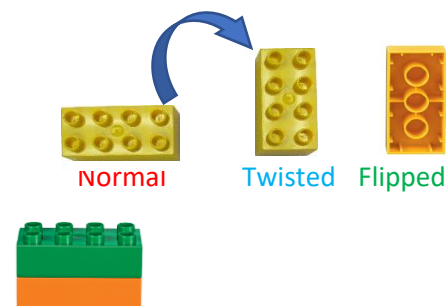
Same side of table



Crossing the B-Line : Basic Movements Mat Layout



- Down or Backward or behind = back towards you - jump **one** line
- Up or Forward or in front of = away from you - jump **one** line
- Twist = twist brick by 90 degrees
- Flip = turned upside down (*studs on mat*)
- In line with = place on same line as a colour
- On top of = join bricks together
(*use as either col and as 1 item*)

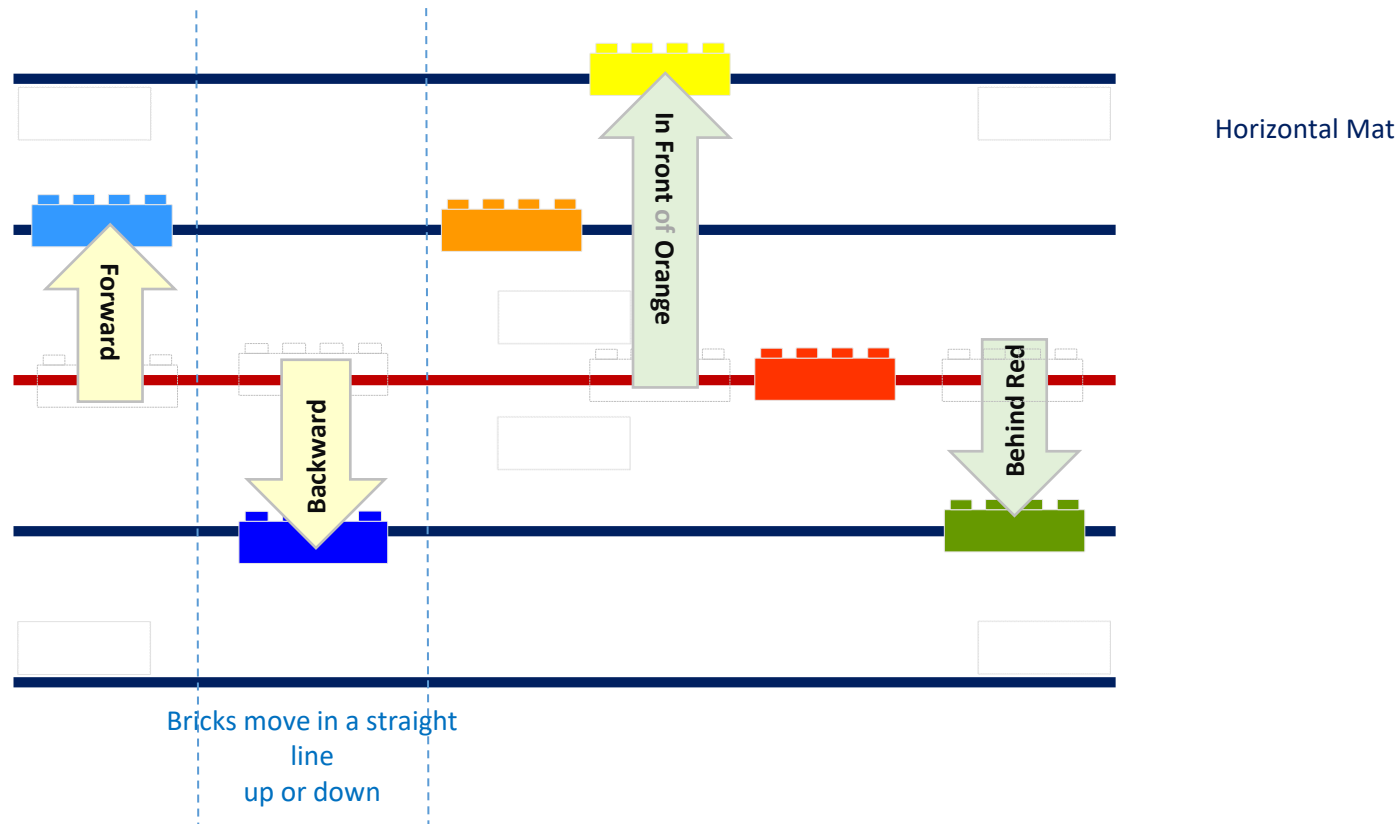


Crossing the B-Line : Basic Moves - Horizontal Mat

Horizontal Templates :	Options :	Excel Tabs / Templates
Up and Down	1 - 10	U&D
Backward & Forward	1 - 10	B&F
Backward & Forward - Assoc	1 - 10 <i>Only say letters for - colours</i>	ColLet
Backward & Forward - Assoc	1 - 10 <i>Only say letters for - movements</i>	PosLet
Backward & Forward - Assoc	1 - 10 <i>Letters for - colours & movements</i>	Letters
Behind & In Front of (<i>in line with</i>)	1 - 6	B&I
Back & Forward, Twist & Flip	1 - 10	F&T
Behind, In Front, Flip & Twist	1 - 6	BIFT
Mixed movements	1 - 4 <i>Go slowly - allow time to process</i>	T

Start slowly - increase speed

EF Can substitute any colour or movement with it's starting letter for any of the templates



U&D Option 1

Light Blue	Down
Green	Up
Orange	Up
Red	Down
Dark Blue	Down
Green	Up
Yellow	Up
Orange	Down
Red	Up
Light Blue	Up
Orange	Down
Red	Up
Green	Down
Dark Blue	Down
Yellow	Down
Red	Down
Orange	Up
Dark Blue	Up
Green	Down
Dark Blue	Up

All end on Red line

U&D Option 2

Yellow	Up
Red	Up
Orange	Down
Dark Blue	Up
Green	Down
Light Blue	Up
Red	Up
Orange	Up
Green	Down
Dark Blue	Down
Light Blue	Up
Green	Up
Orange	Up
Yellow	Up
Red	Down
Green	Up
Dark Blue	Up
Green	Up
Light Blue	Down
Yellow	Down

All end Up 1 line

Which did you move 1st ?

Yellow

U&D Option 3

Light Blue	Up
Green	Up
Red	Up
Dark Blue	Down
Yellow	Down
Light Blue	Down
Light Blue	Down
Green	Down
Red	Down
Dark Blue	Down
Light Blue	Down
Dark Blue	Up
Green	Up
Light Blue	Up
Red	Up
Dark Blue	Up
Red	Down
Yellow	Up
Green	Down
Light Blue	Up

All end on Red line

Which col did not move ?

Orange

U&D Option 4

Red	Up
Dark Blue	Down
Yellow	Up
Red	Down
Green	Down
Light Blue	Down
Orange	Down
Dark Blue	Down
Yellow	Down
Orange	Down
Light Blue	Up
Yellow	Down
Light Blue	Down
Green	Down
Red	Down
Orange	Up
Yellow	Down
Orange	Down
Light Blue	Down
Red	Down

All end Down 2 lines

Which did you move BW 1st ?

Dark Blue

U&D Option 5

Orange	Up
Red	Down
Yellow	Up
Light Blue	Up
Green	Down
Yellow	Down
Dark Blue	Down
Red	Up
Green	Up
Light Blue	Down
Dark Blue	Down
Orange	Down
Red	Down
Orange	Down
Green	Down
Dark Blue	Up
Red	Up
Orange	Up
Dark Blue	Up
Green	Up

All end on Red line

Which did you move 2nd ?

Red

U&D Option 6

Yellow	Down
Red	Down
Orange	Up
Dark Blue	Down
Green	Up
Light Blue	Down
Red	Down
Orange	Down
Green	Up
Dark Blue	Up
Light Blue	Down
Green	Down
Orange	Down
Yellow	Down
Red	Up
Green	Down
Dark Blue	Down
Green	Down
Light Blue	Up
Yellow	Up

All end **Up 1** line

U&D Option 7

Red	Down
Orange	Up
Light Blue	Down
Green	Up
Dark Blue	Down
Green	Up
Orange	Down
Yellow	Up
Orange	Down
Light Blue	Up
Green	Down
Red	Up
Yellow	Down
Dark Blue	Up
Green	Down
Red	Up
Dark Blue	Down
Orange	Up
Red	Down
Dark Blue	Up

All end on **Red** line

Was there a move pattern ?
BW then FW

U&D Option 8

Orange	Up
Green	Up
Red	Up
Dark Blue	Down
Yellow	Down
Orange	Down
Orange	Down
Green	Down
Red	Down
Dark Blue	Down
Orange	Down
Dark Blue	Up
Green	Up
Orange	Up
Red	Up
Dark Blue	Up
Red	Down
Yellow	Up
Green	Down
Orange	Up

All end on **Red** line

Which col did not move ?
Light Blue

U&D Option 9

Dark Blue	Up
Red	Up
Light Blue	Up
Dark Blue	Up
Red	Up
Orange	Down
Yellow	Up
Green	Down
Light Blue	Up
Green	Up
Orange	Up
Yellow	Up
Orange	Up
Red	Down
Green	Down
Dark Blue	Down
Green	Up
Light Blue	Down
Yellow	Down
Green	Up

All end **Up 1** line

Which did you move 1st ?
Dark Blue

U&D Option 10

Yellow	Up
Orange	Up
Red	Down
Light Blue	Up
Dark Blue	Down
Green	Up
Red	Down
Orange	Down
Dark Blue	Up
Yellow	Down
Light Blue	Down
Green	Down
Dark Blue	Down
Light Blue	Up
Orange	Down
Green	Up
Light Blue	Up
Orange	Up
Yellow	Up
Green	Down

Two on **Red** line
One on **all other** lines

B&F Option 1

Light Blue	Backward
Green	Forward
Orange	Forward
Red	Backward
Dark Blue	Backward
Green	Forward
Yellow	Forward
Orange	Backward
Red	Forward
Light Blue	Forward
Orange	Backward
Red	Forward
Green	Backward
Dark Blue	Backward
Yellow	Backward
Red	Backward
Orange	Forward
Dark Blue	Forward
Green	Backward
Dark Blue	Forward

All end on Red line

B&F Option 2

Yellow	Forward
Red	Forward
Orange	Backward
Dark Blue	Forward
Green	Backward
Light Blue	Forward
Red	Forward
Orange	Forward
Green	Backward
Dark Blue	Backward
Light Blue	Forward
Green	Forward
Orange	Forward
Yellow	Forward
Red	Backward
Green	Forward
Dark Blue	Forward
Green	Forward
Light Blue	Backward
Yellow	Backward

All end Forward 1 line

Which did you move 1st ?

Yellow

B&F Option 3

Light Blue	Forward
Green	Forward
Red	Forward
Dark Blue	Backward
Yellow	Backward
Light Blue	Backward
Light Blue	Backward
Green	Backward
Red	Backward
Dark Blue	Backward
Light Blue	Backward
Dark Blue	Forward
Green	Forward
Light Blue	Forward
Red	Forward
Dark Blue	Forward
Red	Backward
Yellow	Forward
Green	Backward
Light Blue	Forward

All end on Red line

Which col did not move ?

Orange

B&F Option 4

Red	Forward
Dark Blue	Backward
Yellow	Forward
Red	Backward
Green	Backward
Light Blue	Backward
Orange	Backward
Dark Blue	Backward
Yellow	Backward
Orange	Backward
Light Blue	Forward
Yellow	Backward
Green	Backward
Red	Backward
Orange	Forward
Yellow	Backward
Orange	Backward
Light Blue	Backward
Red	Backward

All end Backward 2 line

Which did you move BW 1st ?

Dark Blue

B&F Option 5

Orange	Forward
Red	Backward
Yellow	Forward
Light Blue	Forward
Green	Backward
Yellow	Backward
Dark Blue	Backward
Red	Forward
Green	Forward
Light Blue	Backward
Dark Blue	Backward
Orange	Backward
Red	Backward
Orange	Backward
Green	Backward
Dark Blue	Forward
Red	Forward
Orange	Forward
Dark Blue	Forward
Green	Forward

All end on Red line

Which did you move 2nd ?

Red

B&F Option 6

Yellow	Backward
Red	Backward
Orange	Forward
Dark Blue	Backward
Green	Forward
Light Blue	Backward
Red	Backward
Orange	Backward
Green	Forward
Dark Blue	Forward
Light Blue	Backward
Green	Backward
Orange	Backward
Yellow	Backward
Red	Forward
Green	Backward
Dark Blue	Backward
Green	Backward
Light Blue	Forward
Yellow	Forward

All end **Backward** 1 line**B&F Option 7**

Red	Backward
Orange	Forward
Light Blue	Backward
Green	Forward
Dark Blue	Backward
Green	Forward
Orange	Backward
Yellow	Forward
Orange	Backward
Light Blue	Forward
Green	Backward
Red	Forward
Yellow	Backward
Dark Blue	Forward
Green	Backward
Red	Forward
Dark Blue	Backward
Orange	Forward
Red	Backward
Dark Blue	Forward

All end on **Red** lineWas there a move pattern ?
BW then FW**B&F Option 8**

Orange	Forward
Green	Forward
Red	Forward
Dark Blue	Backward
Yellow	Backward
Orange	Backward
Orange	Backward
Green	Backward
Red	Backward
Dark Blue	Backward
Orange	Backward
Dark Blue	Forward
Green	Forward
Orange	Forward
Red	Forward
Dark Blue	Forward
Red	Backward
Yellow	Forward
Green	Backward
Orange	Forward

All end on **Red** lineWhich col did not move ?
Light Blue**B&F Option 9**

Dark Blue	Forward
Red	Forward
Light Blue	Forward
Dark Blue	Forward
Red	Forward
Orange	Backward
Yellow	Forward
Green	Backward
Light Blue	Forward
Green	Forward
Orange	Forward
Yellow	Forward
Orange	Forward
Red	Backward
Green	Backward
Dark Blue	Backward
Green	Forward
Light Blue	Backward
Yellow	Backward
Green	Forward

All end **Forward** 1 lineWhich did you move 1st ?
Dark Blue**B&F Option 10**

Yellow	Forward
Orange	Forward
Red	Backward
Light Blue	Forward
Dark Blue	Backward
Green	Forward
Red	Backward
Orange	Backward
Dark Blue	Forward
Yellow	Backward
Light Blue	Backward
Green	Backward
Dark Blue	Backward
Light Blue	Forward
Orange	Backward
Green	Forward
Light Blue	Forward
Orange	Forward
Yellow	Forward
Green	Backward

Two on **Red** line
One on all other lines

ColLet Option 1

Y	Forward
R	Forward
O	Backward
DB	Forward
G	Backward
LB	Forward
R	Forward
O	Forward
G	Backward
DB	Backward
LB	Forward
G	Forward
O	Forward
Y	Forward
R	Backward
G	Forward
DB	Forward
G	Forward
LB	Backward
Y	Backward

All end **Forward 1** line

ColLet Option 2

LB	Backward
G	Forward
O	Forward
R	Backward
DB	Backward
G	Forward
Y	Forward
O	Backward
R	Forward
LB	Forward
O	Backward
R	Forward
G	Backward
DB	Backward
Y	Backward
R	Backward
O	Forward
DB	Forward
G	Backward
DB	Forward

All end **Red** line

ColLet Option 3

R	Forward
DB	Backward
Y	Forward
R	Backward
G	Backward
LB	Backward
O	Backward
DB	Backward
Y	Backward
O	Backward
LB	Forward
Y	Backward
LB	Backward
G	Backward
R	Backward
O	Forward
Y	Backward
O	Backward
LB	Backward
R	Backward

All end **Backward 2** line

ColLet Option 4

LB	Forward
G	Forward
O	Forward
DB	Backward
Y	Backward
LB	Backward
LB	Backward
G	Backward
O	Backward
DB	Backward
LB	Backward
DB	Forward
G	Forward
LB	Forward
O	Forward
DB	Forward
O	Backward
Y	Forward
G	Backward
LB	Forward

All end **Red** line

ColLet Option 5

O	Forward
R	Backward
Y	Forward
LB	Forward
G	Backward
Y	Backward
DB	Backward
R	Forward
G	Forward
LB	Backward
DB	Backward
O	Backward
R	Backward
O	Backward
G	Backward
DB	Forward
R	Forward
O	Forward
DB	Forward
G	Forward

All end **Red** line

Which col did not move ?

Red

ColLet Option 6

DB	Forward
R	Forward
LB	Forward
DB	Forward
R	Forward
O	Backward
Y	Forward
G	Backward
LB	Forward
G	Forward
O	Forward
Y	Forward
O	Forward
R	Backward
G	Backward
DB	Backward
G	Forward
LB	Forward
Y	Backward
G	Forward

All end **Forward** 1 line

ColLet Option 7

R	Backward
O	Forward
LB	Backward
G	Forward
DB	Backward
G	Forward
O	Backward
Y	Forward
O	Backward
LB	Forward
G	Backward
R	Forward
Y	Backward
DB	Forward
G	Backward
R	Forward
DB	Backward
O	Forward
R	Backward
DB	Forward

All end **Red** line

ColLet Option 8

O	Forward
G	Forward
R	Forward
LB	Backward
Y	Backward
O	Backward
O	Backward
G	Backward
R	Backward
LB	Backward
O	Backward
LB	Forward
G	Forward
O	Forward
R	Forward
LB	Forward
R	Backward
Y	Forward
G	Backward
O	Forward

All end **Red** line

Which col did not move ?

Dark Blue

ColLet Option 9

Y	Backward
R	Backward
O	Forward
DB	Backward
G	Forward
LB	Backward
R	Backward
O	Backward
G	Forward
DB	Forward
LB	Backward
G	Backward
O	Backward
Y	Backward
R	Forward
G	Backward
DB	Backward
G	Backward
LB	Backward
Y	Forward

All end **Backward** 1 line

ColLet Option 10

Y	Forward
O	Forward
R	Backward
LB	Forward
DB	Backward
G	Forward
R	Backward
O	Backward
DB	Forward
Y	Backward
LB	Backward
G	Backward
DB	Backward
LB	Forward
O	Backward
G	Forward
LB	Forward
O	Forward
Y	Forward
G	Backward

Two on **Red** line
One on all other lines

PosLet Option 1

Yellow	F
Red	F
Orange	B
Dark Blue	F
Green	B
Light Blue	F
Red	F
Orange	F
Green	B
Dark Blue	B
Light Blue	F
Green	F
Orange	F
Yellow	F
Red	B
Green	F
Dark Blue	F
Green	F
Light Blue	F
Yellow	B

All end **Forward 1** line**PosLet Option 2**

Light Blue	B
Green	F
Orange	F
Red	B
Dark Blue	B
Green	F
Yellow	F
Orange	B
Red	F
Light Blue	F
Orange	B
Red	F
Green	B
Dark Blue	B
Yellow	B
Red	B
Orange	F
Dark Blue	F
Green	B
Dark Blue	F

All end **Red** line**PosLet Option 3**

Red	F
Dark Blue	B
Yellow	F
Red	B
Green	B
Light Blue	B
Orange	B
Dark Blue	B
Yellow	B
Orange	B
Light Blue	F
Yellow	B
Light Blue	B
Green	B
Red	B
Orange	F
Yellow	B
Orange	B
Light Blue	B
Red	B

All end **Backward 2** line**PosLet Option 4**

Light Blue	F
Green	F
Orange	F
Dark Blue	B
Yellow	B
Light Blue	B
Light Blue	B
Green	B
Orange	B
Dark Blue	B
Light Blue	B
Dark Blue	F
Green	F
Light Blue	F
Orange	F
Dark Blue	F
Orange	B
Yellow	F
Green	B
Light Blue	F

All end **Red** line**PosLet Option 5**

Orange	F
Red	B
Yellow	F
Light Blue	F
Green	B
Yellow	B
Dark Blue	B
Red	F
Green	F
Light Blue	B
Dark Blue	B
Orange	B
Red	B
Orange	B
Green	B
Dark Blue	F
Red	F
Orange	F
Dark Blue	F
Green	F

All end **Red** line

Which col did not move ?

Red

PosLet Option 6

Dark Blue	F
Red	F
Light Blue	F
Dark Blue	F
Red	F
Orange	B
Yellow	F
Green	B
Light Blue	F
Green	F
Orange	F
Yellow	F
Orange	F
Red	B
Green	B
Dark Blue	B
Green	F
Light Blue	F
Yellow	B
Green	F

All end **Forward 1** line**PosLet Option 7**

Red	B
Orange	F
Light Blue	B
Green	F
Dark Blue	B
Green	F
Orange	B
Yellow	F
Orange	B
Light Blue	F
Green	B
Red	F
Yellow	B
Dark Blue	F
Green	B
Red	F
Dark Blue	B
Orange	F
Red	B
Dark Blue	F

All end **Red** line**PosLet Option 8**

Orange	F
Green	F
Red	F
Light Blue	B
Yellow	B
Orange	B
Orange	B
Green	B
Red	B
Light Blue	B
Orange	B
Light Blue	F
Green	F
Orange	F
Red	F
Light Blue	F
Red	B
Yellow	F
Green	B
Orange	F

All end **Red** line

Which col did not move ?

Dark Blue**PosLet Option 9**

Yellow	B
Red	B
Orange	F
Dark Blue	B
Green	F
Light Blue	B
Red	B
Orange	B
Green	F
Dark Blue	F
Light Blue	B
Green	B
Orange	B
Yellow	B
Red	F
Green	B
Dark Blue	B
Green	B
Light Blue	B
Yellow	F

All end **Backward 1** line**PosLet Option 10**

Yellow	F
Orange	F
Red	B
Light Blue	F
Dark Blue	B
Green	F
Red	B
Orange	B
Dark Blue	F
Yellow	B
Light Blue	B
Green	B
Dark Blue	B
Light Blue	F
Orange	B
Green	F
Light Blue	F
Orange	F
Yellow	F
Green	B

Two on **Red** line
One on all other lines

Letters Option 1

Y	F
R	F
O	B
DB	F
G	B
LB	F
R	F
O	F
G	B
DB	B
LB	F
G	F
O	F
Y	F
R	B
G	F
DB	F
G	F
LB	F
Y	B

All end **Forward 1** line

Letters Option 2

LB	B
G	F
O	F
R	B
DB	B
G	F
Y	F
O	B
R	F
LB	F
O	B
R	F
G	B
DB	B
Y	B
R	B
O	F
DB	F
G	B
DB	F

All end **Red** line

Letters Option 3

R	F
DB	B
Y	F
R	B
G	B
LB	B
O	B
DB	B
Y	B
O	B
LB	F
Y	B
LB	B
G	B
R	B
O	F
Y	B
O	B
LB	B
R	B

All end **Backward 2** line

Letters Option 4

LB	F
G	F
O	F
DB	B
Y	B
LB	B
LB	B
G	B
O	B
DB	B
LB	B
DB	F
G	F
LB	F
O	F
DB	F
O	B
Y	F
G	B
LB	F

All end **Red** line

Letters Option 5

O	F
R	B
Y	F
LB	F
G	B
Y	B
DB	B
R	F
G	F
LB	B
DB	B
O	B
R	B
O	B
G	B
DB	F
R	F
O	F
DB	F
G	F

All end **Red** line

Which col did not move ?

Red

Letters Option 6

DB	F
R	F
LB	F
DB	F
R	F
O	B
Y	F
G	B
LB	F
G	F
O	F
Y	F
O	F
R	B
G	B
DB	B
G	F
LB	F
Y	B
G	F

All end **Forward 1** line

Letters Option 7

R	B
O	F
LB	B
G	F
DB	B
G	F
O	B
Y	F
O	B
LB	F
G	B
R	F
Y	B
DB	F
G	B
R	F
DB	B
O	F
R	B
DB	F

All end **Red** line

Letters Option 8

O	F
G	F
R	F
LB	B
Y	B
O	B
G	B
R	B
LB	B
O	B
LB	F
G	F
O	F
R	F
LB	F
R	B
Y	F
G	B
O	F

All end **Red** line

Which col did not move ?

Dark Blue

Letters Option 9

Y	B
R	B
O	F
DB	B
G	F
LB	B
R	B
O	B
G	F
DB	F
LB	B
G	B
O	B
Y	B
R	F
G	B
DB	B
G	B
LB	B
Y	F

All end **Backward 1** line

Letters Option 10

Y	F
O	F
R	B
LB	F
DB	B
G	F
R	B
O	B
DB	F
Y	B
LB	B
G	B
DB	B
LB	F
O	B
G	F
LB	F
O	F
Y	F
G	B

Two on **Red** line
One on **all other** lines

B&I Option 1

Green	in front of	Red
Orange	in front of	Red
Light Blue	behind	Red
Dark Blue	in front of	Red
Yellow	behind	Red
Light Blue	in front of	Dark Blue
Orange	behind	Yellow
Dark Blue	behind	Red
Light Blue	behind	Green
Yellow	in front of	Dark Blue
Orange	in front of	Green
Dark Blue	in front of	Red
Orange	behind	Yellow
Green	behind	Dark Blue
Yellow	in front of	Red
Dark Blue	behind	Yellow
Green	behind	Red
Light Blue	in front of	Red
Orange	in front of	Green
Dark Blue	behind	Red

Two on each line

Which col did not move ?

Red

B&I Option 2

Red	in front of	Dark Blue
Green	behind	Yellow
Yellow	in front of	Dark Blue
Dark Blue	behind	Orange
Light Blue	behind	Dark Blue
Red	in front of	Yellow
Green	in front of	Orange
Light Blue	in front of	Yellow
Dark Blue	in front of	Orange
Red	behind	Orange
Green	behind	Red
Light Blue	behind	Yellow
Dark Blue	in front of	Yellow
Green	in front of	Red
Dark Blue	behind	Yellow
Red	in front of	Yellow
Yellow	behind	Orange
Dark Blue	in front of	Light Blue
Light Blue	behind	Yellow

Two on Red line

One on all other lines

Which col did not move ?

Orange

B&I Option 3

Dark Blue	in front of	Red
Green	behind	Yellow
Yellow	in front of	Dark Blue
Red	in front of	Orange
Orange	behind	Green
Light Blue	in front of	Red
Yellow	behind	Red
Dark Blue	in line with	Yellow
Red	behind	Green
Light Blue	in line with	Orange
Red	in front of	Light Blue
Orange	in front of	Dark Blue
Green	in front of	Red
Light Blue	in front of	Red
Yellow	in line with	Orange
Dark Blue	in front of	Light Blue
Red	in front of	Green
Green	in front of	Light Blue
Light Blue	in line with	Orange

All end Forward 1 line

Which did you move 1st ?

Dark Blue

B&I Option 4

Red	in front of	Green
Light Blue	in front of	Dark Blue
Yellow	in front of	Orange
Dark Blue	swop with	Red
Green	behind	Orange
Light Blue	behind	Green
Orange	in front of	Yellow
Red	in front of	Dark Blue
Green	swop with	Orange
Red	behind	Yellow
Light Blue	in line with	Red
Green	behind	Yellow
Orange	in front of	Yellow
Dark Blue	in line with	Light Blue
Red	in front of	Yellow
Yellow	swop with	Orange
Red	in line with	Light Blue
Yellow	behind	Orange
Orange	in line with	Dark Blue

All end Red line

Which col did not move ?

None

B&I Option 5

Yellow	in front of	Light Blue
Orange	in front of	Yellow
Green	behind	Dark Blue
Red	behind	Green
Orange	behind	Yellow
Red	in front of	Yellow
Green	in front of	Light Blue
Red	behind	Dark Blue
Yellow	behind	Red
Orange	in front of	Green
Yellow	in front of	Dark Blue
Orange	behind	Yellow
Red	in front of	Yellow
Green	behind	Light Blue
Yellow	behind	Orange
Green	in front of	Dark Blue
Yellow	in front of	Green
Orange	in front of	Green
Green	in line with	Red

Both Blues on Red line

Rest on Top line

Which col did not move ?

Both Blues

B&I Option 6

Orange	in front of	Yellow
Red	in line with	Orange
Dark Blue	behind	Light Blue
Yellow	in line with	Dark Blue
Green	behind	Orange
Red	behind	Yellow
Green	in front of	Dark Blue
Orange	behind	Light Blue
Yellow	in front of	Green
Red	behind	Orange
Dark Blue	in front of	Yellow
Orange	in line with	Yellow
Green	in front of	Orange
Light Blue	in line with	Dark Blue
Orange	behind	Green
Yellow	behind	Orange
Red	in front of	Orange
Orange	in line with	Yellow
Yellow	in line with	Red

Orange ends on Red line

Rest on Top line

F&T Option 1

Light Blue	Backward
Green	Flip
Orange	Forward
Red	Twist
Dark Blue	Backward
Green	Forward
Yellow	Flip
Orange	Forward
Light Blue	Twist
Dark Blue	Flip
Orange	Backward
Green	Flip
Yellow	Forward
Dark Blue	Forward
Green	Backward
Light Blue	Twist
Orange	Backward
Light Blue	Forward
Yellow	Backward
Red	Twist

All end on **Red** line
(4up & 2down)

F&T Option 2

Yellow	Flip
Red	Twist
Orange	Flip
Dark Blue	Twist
Green	Forward
Light Blue	Backward
Red	Flip
Orange	Twist
Red	Forward
Dark Blue	Twist
Light Blue	Forward
Orange	Forward
Yellow	Forward
Dark Blue	Forward
Orange	Flip
Red	Flip
Light Blue	Forward
Red	Twist
Yellow	Flip
Orange	Twist

All end **Forward 1** line
Which did you move 1st ?
Yellow

F&T Option 3

Orange	Twist
Red	Forward
Green	Flip
Red	Forward
Yellow	Twist
Dark Blue	Backward
Light Blue	Flip
Dark Blue	Backward
Orange	Flip
Red	Backward
Green	Twist
Dark Blue	Forward
Yellow	Flip
Red	Twist
Light Blue	Twist
Dark Blue	Forward
Red	Flip
Dark Blue	Twist
Red	Backward
Dark Blue	Flip

All end on **Red** line
(twisted & studs down)

F&T Option 4

Green	Forward
Orange	Backward
Yellow	Flip
Red	Flip
Dark Blue	Twist
Light Blue	Flip
Yellow	Forward
Dark Blue	Backward
Orange	Twist
Red	Backward
Dark Blue	Flip
Green	Forward
Light Blue	Backward
Light Blue	Twist
Red	Forward
Dark Blue	Backward
Green	Twist
Red	Forward
Green	Twist
Light blue	Backward

None end on **Red** line
(each blue line has
different brick orientation)

F&T Option 5

Dark Blue	Twist
Yellow	Flip
Light Blue	Twist
Red	Flip
Green	Twist
Orange	Flip
Dark Blue	Forward
Light Blue	Flip
Yellow	Twist
Red	Backward
Light Blue	Twist
Dark Blue	Backward
Orange	Flip
Green	Twist
Red	Flip
Dark Blue	Twist
Yellow	Flip
Light Blue	Flip
Yellow	Twist
Red	Forward

All end **Red** line
Which 2 bricks moved ?
Dark Blue & Red

F&T Option 6

Red	Forward
Dark Blue	Backward
Light Blue	Flip
Yellow	Flip
Orange	Twist
Green	Flip
Light Blue	Forward
Orange	Backward
Dark Blue	Twist
Yellow	Backward
Orange	Flip
Red	Forward
Green	Backward
Green	Twist
Yellow	Forward
Orange	Backward
Red	Twist
Yellow	Forward
Red	Twist
Green	Backward

None end on Red line
(each blue line has
different brick orientation)

F&T Option 7

Orange	Twist
Light Blue	Flip
Green	Twist
Yellow	Flip
Red	Twist
Dark Blue	Flip
Orange	Forward
Green	Flip
Light Blue	Twist
Yellow	Backward
Green	Twist
Orange	Backward
Dark Blue	Flip
Red	Twist
Yellow	Flip
Orange	Twist
Light Blue	Flip
Green	Flip
Light Blue	Twist
Yellow	Forward

All end Red line
Which 2 bricks moved ?
Orange & Yellow

F&T Option 8

Light Blue	Flip
Yellow	Twist
Dark Blue	Flip
Orange	Twist
Red	Forward
Green	Backward
Yellow	Flip
Dark Blue	Twist
Yellow	Forward
Orange	Twist
Green	Forward
Dark Blue	Forward
Light Blue	Forward
Orange	Forward
Dark Blue	Flip
Yellow	Flip
Green	Forward
Yellow	Twist
Light Blue	Flip
Dark Blue	Twist

All end Forward 1 line
Which did you move 1st ?
Light Blue

F&T Option 9

Dark Blue	Twist
Yellow	Forward
Red	Flip
Yellow	Forward
Light Blue	Twist
Orange	Backward
Green	Flip
Orange	Backward
Dark Blue	Flip
Yellow	Backward
Red	Twist
Orange	Forward
Light Blue	Flip
Yellow	Twist
Green	Twist
Orange	Forward
Yellow	Flip
Orange	Twist
Yellow	Backward
Orange	Flip

All end on Red line
(twisted & studs down)

F&T Option 10

Green	Backward
Red	Flip
Dark Blue	Forward
Yellow	Twist
Orange	Backward
Red	Forward
Light Blue	Flip
Dark Blue	Forward
Green	Twist
Orange	Flip
Dark Blue	Backward
Red	Flip
Light Blue	Forward
Orange	Forward
Red	Backward
Green	Twist
Dark Blue	Backward
Green	Forward
Light Blue	Backward
Yellow	Twist

All end on Red line
(4up & 2down)

BIFT Option 1

Dark Blue	in front of	Red
Orange	Twist	
Red	behind	Green
Yellow	Flip	
Green	behind	Red
Ligth Blue	Twist	
Red	in front of	Dark Blue
Green	Twist	
Dark Blue	Flip	
Red	behind	Yellow
Green	Twist	
Dark Blue	on top of	Green
Green	in front of	Red
Yellow	on top of	Red
Dark Blue	Twist	
Green	on top of	Light Blue
Red	Twist	
Orange	on top of	Yellow
Dark Blue	underneath	Red
Yellow	Twist	

All stacked and end on **Red** line

Which did you move 1st ?

Dark Blue

BIFT Option 2

Orange	behind	Light Blue
Red	in front of	Yellow
Dark Blue	behind	Orange
Green	in front of	Red
Yellow	Twist	
Green	Flip	
Light Blue	Flip	
Orange	Twist	
Red	behind	Orange
Dark Blue	Flip	
Yellow	behind	Orange
Orange	Flip	
Green	Twist	
Yellow	Twist	
Red	Flip	
Light Blue	behind	Orange
Orange	Twist	
Yellow	Flip	
Green	Twist	
Green	behind	Orange
Orange	backward	

All flipped on **Backward 2** line

BIFT Option 3

Red	Flip	
Dark Blue	Twist	
Orange	in front of	Red
Green	Flip	
Light Blue	Twist	
Yellow	behind	Dark Blue
Light Blue	in front of	Orange
Dark Blue	behind	Yellow
Red	Twist	
Yellow	Flip	
Green	Flip	
Dark Blue	Twist	
Dark Blue	in front of	Yellow
Yellow	forward	
Light Blue	Twist	
Yellow	Flip	
Light Blue	behind	Orange
Orange	backward	

All end on **Red** line

Red is twisted and flipped

BIFT Option 4

Green	Twist	
Orange	Flip	
Red	Twist	
Dark Blue	Flip	
Light Blue	Twist	
Yellow	Flip	
Red	Flip	
Light Blue	in front of	Yellow
Green	Flip	
Orange	Twist	
Green	behind	Red
Yellow	Twist	
Dark Blue	Flip	
Red	Twist	
Yellow	Twist	
Green	Flip	
Yellow	Flip	
Orange	behind	Green
Red	in front of	Light Blue
Green	in front of	Dark Blue

All end on different lines
(each line has different brick orientation -
one line has no bricks)

BIFT Option 5

Dark Blue	in front of	Green
Green	Flip	
Red	behind	Yellow
Yellow	Twist	
Orange	in front of	Dark Blue
Dark Blue	Twist	
Light Blue	behind	Red
Red	Flip	
Green	behind	Red
Red	in front of	Dark Blue
Dark Blue	Flip	
Yellow	in front of	Dark Blue
Light Blue	Flip	
Dark Blue	Twist	
Yellow	Twist	
Orange	Flip	
Yellow	Flip	
Red	Flip	
Red	behind	Dark Blue
Dark Blue	forward	

Only Red ends on Red line
(others flipped and
on top and bottom lines)

BIFT Option 6

Light Blue	Twist	
Red	Flip	
Yellow	Twist	
Orange	Twist	
Dark Blue	Flip	
Green	Twist	
Orange	Twist	
Dark Blue	Flip	
Red	Flip	
Blues	in front of	Red
Green	Flip	
Yellow	behind	Dark Blue
Orange	behind	Yellow
Green	Twist	
Orange	Flip	
Yellow	in front of	Red
Green	behind	Red
Yellow	Twist	
Red	Twist	
Light Blue	Twist	

(each line has different brick orientation -
two lines have no bricks - Red on Red
first and last command the same)

Twisted Option 1

Green	in front of	twisted	Red
Yellow	behind	flipped	Dark Blue
Orange	in front of	flipped	Green
Light Blue	behind	twisted	Yellow
Dark Blue	in front of	flipped	Green
Green	behind	twisted	Red
Orange	behind	flipped	Red
Light Blue	in front of	twisted	Green
Dark Blue	behind	twisted	Light Blue
Orange	behind	twisted	Dark Blue
Red		twisted	
Yellow	in front of	flipped	Light Blue
Orange	in front of	flipped	Dark Blue
Yellow	behind	twisted	Orange
Orange	behind	flipped	Light Blue
Yellow	in line with	twisted	Orange
Green	in line with	twisted	Light Blue
Dark Blue	in front of	twisted	Orange
Orange	in line with	twisted	Light Blue

All on **Red** line
Red flipped and Twisted

Which col did not move backward or forward ?

Red

Twisted Option 2

	Dark Blue	behind	flipped	Red
twisted	Orange	in front of		Yellow
	Light Blue	in front of	twisted	Green
flipped	Yellow	behind		Dark Blue
	Red	behind	flipped	Dark Blue
twisted	Yellow	in front of		Orange
	Green	behind	flipped	Dark Blue
flipped	Light Blue	behind		Orange
	Yellow	behind	twisted	Orange
flipped	Light Blue	behind		Dark Blue
	Orange	behind	flipped	Yellow
twisted	Yellow	behind	flipped	Orange
	Orange	behind	flipped	Dark Blue
	Dark Blue	in line with	twisted	Green

All end **Backward 2** line

Three flipped - Three Normal

Twisted Option 3

	Both Blues	in front of	twisted	Red
	Yellow	on top of	twisted	Green
flipped	Orange	behind		Yellow
twisted	Red	in front of	twisted	Light Blue
flipped	Dark Blue	behind	twisted	Orange
flipped	Light Blue	behind	twisted	Green
twisted	Orange	on top of	twisted	Light Blue
flipped	Dark Blue	in front of		Yellow
flipped	Red	behind	twisted	Orange
twisted	Dark Blue	behind	flipped	Yellow
flipped	Red	in front of	twisted	Dark Blue
	Both Blues	in line with	twisted	Red
	Red	on top of	twisted	Dark Blue
twisted	Orange	on top of	twisted	Red
twisted	Dark Blue	on top of	flipped	Yellow

All end stacked on Red line

Twisted Option 4

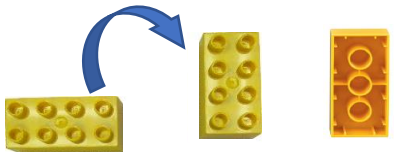
flipped	Green	in front of	twisted	Light Blue
twisted	Orange	behind	flipped	Dark Blue
twisted	Red	in front of	flipped	Green
twisted	Light Blue	behind	twisted	Orange
flipped	Yellow	in front of	flipped	Dark Blue
twisted	Green	behind	flipped	Yellow
twisted	Light Blue	in front of	flipped	Orange
twisted	Red	behind	twisted	Orange
flipped	Yellow	behind	twisted	Green
flipped	Red	in front of	flipped	Orange
flipped	Yellow	in line with	twisted	Light Blue
twisted	Orange	in line with	flipped	Dark Blue
twisted	Dark Blue	in line with	flipped	Red

All on Red line

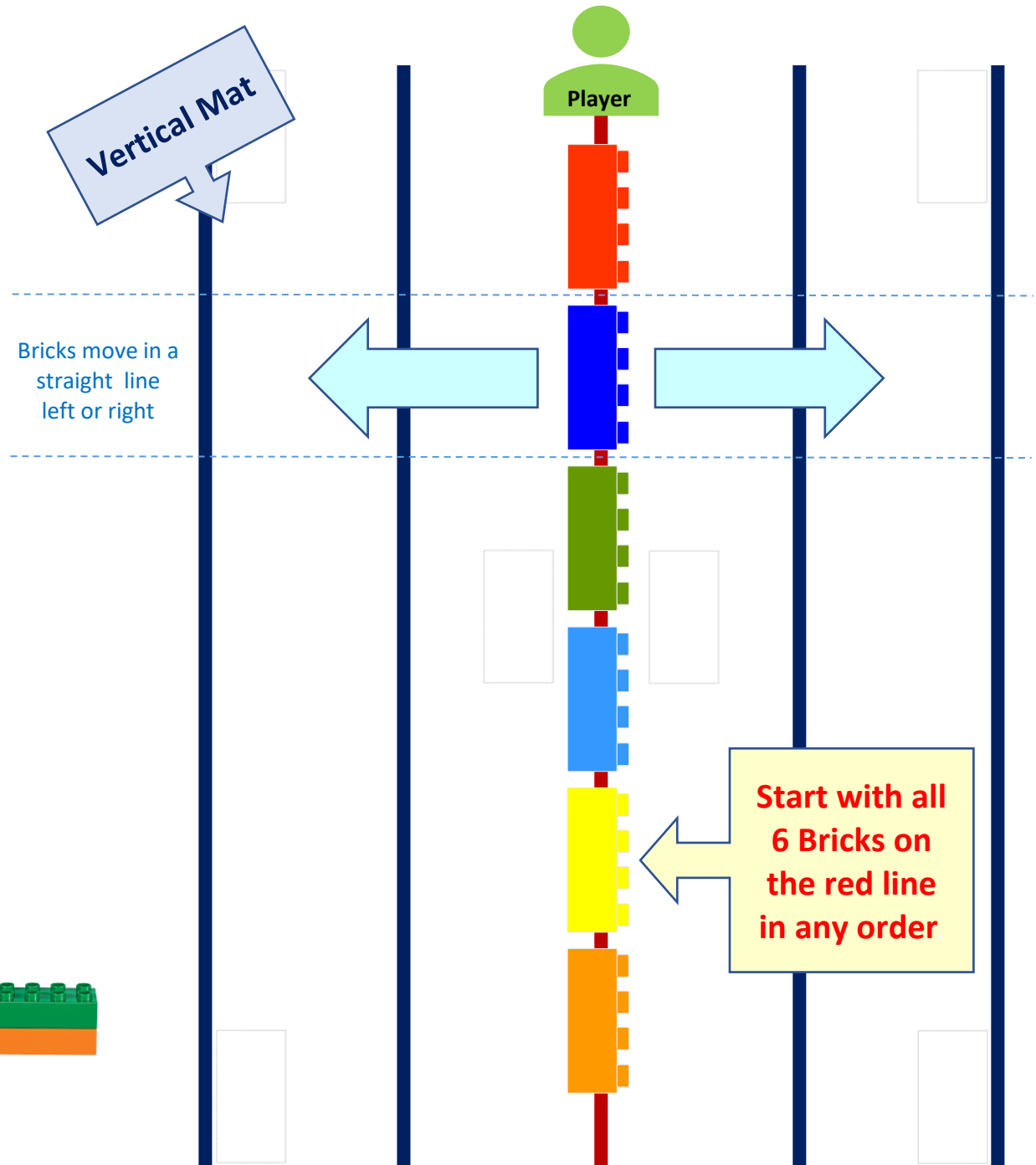
Which col did not move ?

None

Crossing the B-Line : Basic Movements Mat Layout

- Left = move to left - jump **one** line
 Right = move to right - jump **one** line
- Left of = move **to** one line to left of a colour
 Right of = move **to** one line to right of a colour
- 

 Normal Twisted Flipped
- Twist = Twist brick by 90 degrees
 Flip = Turned upside down (*studs on mat*)
- In line with = place on same line as a colour
- On top of = Join bricks together
 (*use as either col and as 1 item*)
- 



Crossing the B-Line : Basic Moves - Vertical Mat

Template Downloads

Vertical Templates :

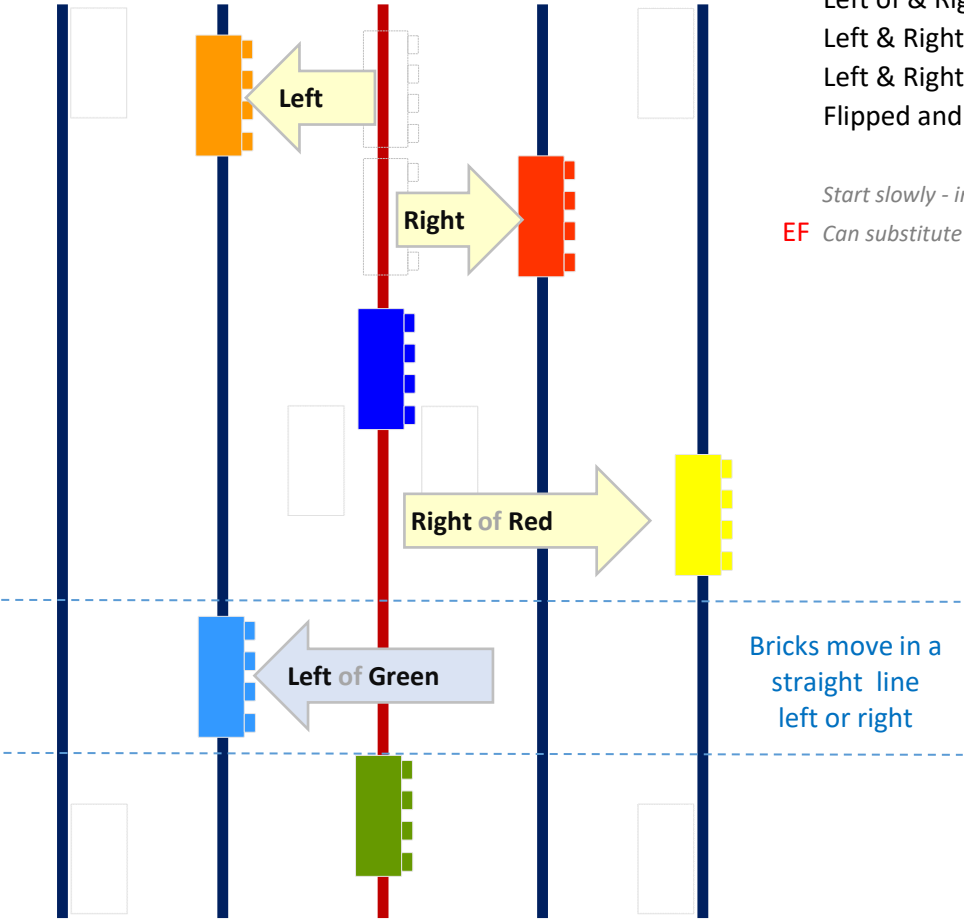
Options :

- | | | |
|--------------------------------|--------|--|
| Left & Right | 1 - 10 | |
| Left of & Right of (on top of) | 1 - 8 | move to one line left or right of a brick |
| Left & Right, Twist & Flip | 1 - 10 | |
| Left & Right of, Twist & Flip | 1 - 6 | |
| Flipped and Twisted moving LR | 1 - 4 | Go slowly - allow time to process |

Start slowly - increase speed

EF Can substitute any colour or movement with it's starting letter for any of the templates

- | | |
|----------|--------------------------|
| L&R | ☐ |
| L&R of | ☐ |
| F&T-LR | ☐ |
| LRFT | ☐ |
| LR Twist | ☐ |



Vertical Mat

L&R Option 1

Light Blue	Left
Green	Right
Orange	Right
Red	Left
Dark Blue	Left
Green	Right
Yellow	Right
Orange	Left
Red	Right
Light Blue	Right
Orange	Left
Red	Right
Green	Left
Dark Blue	Left
Yellow	Left
Red	Left
Orange	Right
Dark Blue	Right
Green	Left
Dark Blue	Right

All end on Red line

L&R Option 2

Yellow	Right
Red	Right
Orange	Left
Dark Blue	Right
Green	Left
Light Blue	Right
Red	Right
Orange	Right
Green	Left
Dark Blue	Left
Light Blue	Right
Green	Right
Orange	Right
Yellow	Right
Red	Left
Green	Right
Dark Blue	Right
Green	Right
Light Blue	Left
Yellow	Left

All end Right 1 line

L&R Option 3

Light Blue	Right
Green	Right
Red	Right
Dark Blue	Left
Yellow	Left
Light Blue	Left
Light Blue	Left
Green	Left
Red	Left
Dark Blue	Left
Light Blue	Left
Dark Blue	Right
Green	Right
Light Blue	Right
Red	Right
Dark Blue	Right
Red	Left
Yellow	Right
Green	Left
Light Blue	Right

All end Red line

L&R Option 4

Red	Right
Dark Blue	Left
Yellow	Right
Red	Left
Green	Left
Light Blue	Left
Orange	Left
Dark Blue	Left
Yellow	Left
Orange	Left
Light Blue	Right
Yellow	Left
Light Blue	Left
Green	Left
Red	Left
Orange	Right
Yellow	Left
Orange	Left
Light Blue	Left
Red	Left

All end Left 2 line

L&R Option 5

Orange	Right
Red	Left
Yellow	Right
Light Blue	Right
Green	Left
Yellow	Left
Dark Blue	Left
Red	Right
Green	Right
Light Blue	Left
Dark Blue	Left
Orange	Left
Red	Left
Orange	Left
Green	Left
Dark Blue	Right
Red	Right
Orange	Right
Dark Blue	Right
Green	Right

All end on Red line

Which col did not move ?

Orange

L&R Option 6

Yellow	Left
Red	Left
Orange	Right
Dark Blue	Left
Green	Right
Light Blue	Left
Red	Left
Orange	Left
Green	Right
Dark Blue	Right
Light Blue	Left
Green	Left
Orange	Left
Yellow	Left
Red	Right
Green	Left
Dark Blue	Left
Green	Left
Light Blue	Right
Yellow	Right

All end **Left 1** line

L&R Option 7

Red	Left
Orange	Right
Light Blue	Left
Green	Right
Dark Blue	Left
Green	Right
Orange	Left
Yellow	Right
Orange	Left
Light Blue	Right
Green	Left
Red	Right
Yellow	Left
Dark Blue	Right
Green	Left
Red	Right
Dark Blue	Left
Orange	Right
Red	Left
Dark Blue	Right

All end on **Red** line

L&R Option 8

Orange	Right
Green	Right
Red	Right
Dark Blue	Left
Yellow	Left
Orange	Left
Orange	Left
Green	Left
Red	Left
Dark Blue	Left
Orange	Left
Dark Blue	Right
Green	Right
Orange	Right
Red	Right
Dark Blue	Right
Red	Left
Yellow	Right
Green	Left
Orange	Right

All end on **Red** line

Which col did not move ?

Light Blue

L&R Option 9

Dark Blue	Right
Red	Right
Light Blue	Right
Dark Blue	Right
Red	Right
Orange	Left
Yellow	Right
Green	Left
Light Blue	Right
Green	Right
Orange	Right
Yellow	Right
Orange	Right
Red	Left
Green	Left
Dark Blue	Left
Green	Right
Light Blue	Left
Yellow	Left
Green	Right

All end **Right 1** line

L&R Option 10

Yellow	Right
Orange	Right
Red	Left
Light Blue	Right
Dark Blue	Left
Green	Right
Red	Left
Orange	Left
Dark Blue	Right
Yellow	Left
Light Blue	Left
Green	Left
Dark Blue	Left
Light Blue	Right
Orange	Left
Green	Right
Light Blue	Right
Orange	Right
Yellow	Right
Green	Left

Two on **Red** line
One on all other lines

L&R of Option 1

Red	Right	
Dark Blue	Left	
Yellow	Right of	Red
Orange	Left	
Light Blue	Left of	Dark Blue
Green	Right	
Light Blue	Right of	Green
Yellow	Left	
Orange	Right	
Red	Left of	Orange
Green	Right	
Yellow	Left of	Dark Blue
Dark Blue	Right	
Green	Left	
Yellow	Right of	Red
Light Blue	Left	
Red	Right	
Light Blue	Left	
Green	Left	

All end on Red line

L&R of Option 2

Dark Blue	Right of	Red
Orange	Left	
Yellow	Right of	Light Blue
Red	Left of	Orange
Orange	Right of	Green
Light Blue	Left of	Green
Green	Left	
Orange	Right of	Yellow
Light Blue	Right of	Dark Blue
Dark Blue	Left	
Green	Right	
Orange	Left of	Dark Blue
Yellow	Right	
Dark Blue	Left	
Orange	Right of	Green
Dark Blue	Right of	Orange
Red	Right of	Green
Orange	Right	
Green	Right of	Red
Red	Left	

Only Red ends on Red line
Rest on far right line

L&R of Option 3

Light Blue	Left	
Red	Right	
Yellow	Left	
Red	Right	
Yellow	Left	
Light Blue	Left of	Dark Blue
Red	Left of	Green
Dark Blue	Right	
Yellow	Right of	Dark Blue
Green	Left of	Light Blue
Orange	Left of	Dark Blue
Yellow	Left of	Red
Red	Right of	Dark Blue
Orange	Left of	Dark Blue
Light Blue	Right	
Orange	Left	
Red	Left of	Orange
Dark Blue	Left	
Orange	Left	

Both Blues on Red line
Rest on far left line

L&R of Option 4

Yellow	Right	
Orange	Left	
Dark Blue	Left of	Orange
Red	Right	
Yellow	Left of	Orange
Orange	Right of	Red
Green	Left of	Red
Dark Blue	Right of	Yellow
Light Blue	Right of	Dark Blue
Orange	Left	
Green	Right of	Yellow
Green	Left of	Dark Blue
Dark Blue	Right of	Orange
Red	Left of	Orange
Dark Blue	Left of	Orange
Red	Left of	Dark Blue
Orange	Left of	Dark Blue
Light Blue	Left of	Red
Dark Blue	Left of	Orange
Red	Right	
Orange	Left	

Only Red ends on Red line

L&R of Option 5

Orange	Left of	Green
Green	Left of	Light Blue
Light Blue	Left of	Dark Blue
Dark Blue	Left of	Green
Green	Right of	Red
Yellow	Right of	Green
Dark Blue	Right of	Green
Green	Left of	Red
Light Blue	Right of	Red
Dark Blue	Left of	Light Blue
Red	Left of	Orange
Orange	Right of	Green
Yellow	Left of	Light Blue
Red	Right of	Light Blue
Red	Left of	Light Blue
Light Blue	Left of	Red
Dark Blue	Left of	Yellow
Green	Right of	Light Blue
All Blues	Right	

All end on Red line

L&R of Option 6

Both Blues	Right	
Red	Left of	Green
Orange	Right of	Red
Yellow	Left of	Red
Green	Right of	Red
Red	Right of	Light Blue
Dark Blue	Left of	Orange
Orange	Left of	Light Blue
Red	Left of	Dark Blue
Dark Blue	Right of	Light Blue
Orange	Right of	Light Blue
Yellow	Right of	Red
Green	Left of	Yellow
Light Blue	Left of	Dark Blue
Orange	Left of	Yellow
Dark Blue	Left of	Light Blue
Yellow	Left of	Dark Blue
Light Blue	Left of	Yellow
Yellow	Left	

Dark Blue on Red line
Rest on far left line

L&R of Option 7

Green	Right of	Red
Dark Blue	Left of	Orange
Yellow	Left of	Green
Orange	Right of	Green
Light Blue	Left of	Dark Blue
Red	Left of	Green
Yellow	Right of	Red
Orange	Left of	Yellow
Dark Blue	Right of	Light Blue
Light Blue	Left of	Dark Blue
Green	Left of	Red
Light Blue	Right of	Green
Orange	Right of	Yellow
Dark Blue	Left of	Light Blue
Green	Right of	Light Blue
Orange	Left of	Green
Green	Left of	Yellow
Dark Blue	Left of	Yellow
Yellow	Left	

All end on Red line

L&R of Option 8

Orange	Right of	Red
Green	on top of	Orange
Dark Blue	Left of	Yellow
Red	Right of	Green
Light Blue	Left of	Dark Blue
Yellow	Right of	Dark Blue
Red	Left of	Dark Blue
Dark Blue	Right of	Orange
Yellow	on top of	Dark Blue
Light Blue	Right of	Red
Orange	Left of	Light Blue
Red	on top of	Light Blue
Orange	Left of	Red
Green	Right of	Light Blue
Red	Left of	Orange
Green	Left of	Light Blue
Dark Blue	on top of	Red
Orange	Right of	Dark Blue
Light Blue	on top of	Green

All end stacked on Red line

F&T-LR Option 1

Light Blue	Left
Green	Flip
Orange	Right
Red	Twist
Dark Blue	Left
Green	Right
Yellow	Flip
Orange	Right
Light Blue	Twist
Dark Blue	Flip
Orange	Left
Green	Flip
Yellow	Right
Dark Blue	Right
Green	Left
Light Blue	Twist
Orange	Left
Light Blue	Right
Yellow	Left
Red	Twist

All end on **Red** line
(4up & 2down)

F&T-LR Option 2

Yellow	Flip
Red	Twist
Orange	Flip
Dark Blue	Twist
Green	Right
Light Blue	Left
Red	Flip
Orange	Twist
Red	Right
Dark Blue	Twist
Light Blue	Right
Orange	Right
Yellow	Right
Dark Blue	Right
Orange	Flip
Red	Flip
Light Blue	Right
Red	Twist
Yellow	Flip
Orange	Twist

All end **Right 1** line
Which did you move 1st ?
Yellow

F&T-LR Option 3

Orange	Twist
Red	Right
Green	Flip
Red	Right
Yellow	Twist
Dark Blue	Left
Light Blue	Flip
Dark Blue	Left
Orange	Flip
Red	Left
Green	Twist
Dark Blue	Right
Yellow	Flip
Red	Twist
Light Blue	Twist
Dark Blue	Right
Red	Flip
Dark Blue	Twist
Red	Left
Dark Blue	Flip

All end on **Red** line
(twisted & studs down)

F&T-LR Option 4

Green	Right
Orange	Left
Yellow	Flip
Red	Flip
Dark Blue	Twist
Light Blue	Flip
Yellow	Right
Dark Blue	Left
Orange	Twist
Red	Left
Dark Blue	Flip
Green	Right
Light Blue	Left
Light Blue	Twist
Red	Right
Dark Blue	Left
Green	Twist
Red	Right
Green	Twist
Light blue	Left

None end on **Red** line
(each blue line has
different brick orientation)

F&T-LR Option 5

Dark Blue	Twist
Yellow	Flip
Light Blue	Twist
Red	Flip
Green	Twist
Orange	Flip
Dark Blue	Right
Light Blue	Flip
Yellow	Twist
Red	Left
Light Blue	Twist
Dark Blue	Left
Orange	Flip
Green	Twist
Red	Flip
Dark Blue	Twist
Yellow	Flip
Light Blue	Flip
Yellow	Twist
Red	Right

All end **Red** line
Which 2 bricks moved ?
Dark Blue & Red

F&T-LR Option 6

Red	Right
Dark Blue	Left
Light Blue	Flip
Yellow	Flip
Orange	Twist
Green	Flip
Light Blue	Right
Orange	Left
Dark Blue	Twist
Yellow	Left
Orange	Flip
Red	Right
Green	Left
Green	Twist
Yellow	Right
Orange	Left
Red	Twist
Yellow	Right
Red	Twist
Green	Left

None end on Red line
(each blue line has
different brick orientation)

F&T-LR Option 7

Orange	Twist
Light Blue	Flip
Green	Twist
Yellow	Flip
Red	Twist
Dark Blue	Flip
Orange	Right
Green	Flip
Light Blue	Twist
Yellow	Left
Green	Twist
Orange	Left
Dark Blue	Flip
Red	Twist
Yellow	Flip
Orange	Twist
Light Blue	Flip
Green	Flip
Light Blue	Twist
Yellow	Right

All end Red line
Which 2 bricks moved ?
Orange & Yellow

F&T-LR Option 8

Light Blue	Flip
Yellow	Twist
Dark Blue	Flip
Orange	Twist
Red	Right
Green	Left
Yellow	Flip
Dark Blue	Twist
Yellow	Right
Orange	Twist
Green	Right
Dark Blue	Right
Light Blue	Right
Orange	Right
Dark Blue	Flip
Yellow	Flip
Green	Right
Yellow	Twist
Light Blue	Flip
Dark Blue	Twist

All end Forward 1 line
Which did you move 1st ?
Light Blue

F&T-LR Option 9

Dark Blue	Twist
Yellow	Right
Red	Flip
Yellow	Right
Light Blue	Twist
Orange	Left
Green	Flip
Orange	Left
Dark Blue	Flip
Yellow	Left
Red	Twist
Orange	Right
Light Blue	Flip
Yellow	Twist
Green	Twist
Orange	Right
Yellow	Flip
Orange	Twist
Yellow	Left
Orange	Flip

All end on Red line
(twisted & studs down)

F&T-LR Option 10

Green	Left
Red	Flip
Dark Blue	Right
Yellow	Twist
Orange	Left
Red	Right
Light Blue	Flip
Dark Blue	Right
Green	Twist
Orange	Flip
Dark Blue	Left
Red	Flip
Light Blue	Right
Orange	Right
Red	Left
Green	Twist
Dark Blue	Left
Green	Right
Light Blue	Left
Yellow	Twist

All end on Red line
(4up & 2down)

LRFT Option 1

Dark Blue	right of	Red
Orange	Twist	
Red	left of	Green
Yellow	Flip	
Green	left of	Red
Ligth Blue	Twist	
Red	right of	Dark Blue
Green	Twist	
Dark Blue	Flip	
Red	left of	Yellow
Green	Twist	
Dark Blue	on top of	Green
Green	right of	Red
Yellow	on top of	Red
Dark Blue	Twist	
Green	on top of	Light Blue
Red	Twist	
Orange	on top of	Yellow
Dark Blue	underneath	Red
Yellow	Twist	

All stacked and end on **Red** line

Which did you move 1st ?

Dark Blue

LRFT Option 2

Orange	left of	Light Blue
Red	right of	Yellow
Dark Blue	left of	Orange
Green	right of	Red
Yellow	Twist	
Green	Flip	
Light Blue	Flip	
Orange	Twist	
Red	left of	Orange
Dark Blue	Flip	
Yellow	left of	Orange
Orange	Flip	
Green	Twist	
Yellow	Twist	
Red	Flip	
Light Blue	left of	Orange
Orange	Twist	
Yellow	Flip	
Green	Twist	
Green	left of	Orange
Orange	left	

All flipped on **Left 2** line

LRFT Option 3

Red	Flip	
Dark Blue	Twist	
Orange	right of	Red
Green	Flip	
Light Blue	Twist	
Yellow	left of	Dark Blue
Light Blue	right of	Orange
Dark Blue	left of	Yellow
Red	Twist	
Yellow	Flip	
Green	Flip	
Dark Blue	Twist	
Dark Blue	right of	Yellow
Yellow	right	
Light Blue	Twist	
Yellow	Flip	
Light Blue	left of	Orange
Orange	left	

All end on **Red** line

Red is twisted and flipped

LRFT Option 4

Green	Twist	
Orange	Flip	
Red	Twist	
Dark Blue	Flip	
Light Blue	Twist	
Yellow	Flip	
Red	Flip	
Light Blue	right of	Yellow
Green	Flip	
Orange	Twist	
Green	left of	Red
Yellow	Twist	
Dark Blue	Flip	
Red	Twist	
Yellow	Twist	
Green	Flip	
Yellow	Flip	
Orange	left of	Green
Red	right of	Light Blue
Green	right of	Dark Blue

All end on different lines
(each line has different brick orientation -
one line has no bricks)

LRFT Option 5

Dark Blue	right of	Green
Green	Flip	
Red	left of	Yellow
Yellow	Twist	
Orange	right of	Dark Blue
Dark Blue	Twist	
Light Blue	left of	Red
Red	Flip	
Green	left of	Red
Red	right of	Dark Blue
Dark Blue	Flip	
Yellow	right of	Dark Blue
Light Blue	Flip	
Dark Blue	Twist	
Yellow	Twist	
Orange	Flip	
Yellow	Flip	
Red	Flip	
Red	left of	Dark Blue
Dark Blue	Right	

Only **Red** ends on **Red** line
(others flipped and
on far left and right lines)

LRFT Option 6

Light Blue	Twist	
Red	Flip	
Yellow	Twist	
Orange	Twist	
Dark Blue	Flip	
Green	Twist	
Orange	Twist	
Dark Blue	Flip	
Red	Flip	
Blues	right of	Red
Green	Flip	
Yellow	left of	Dark Blue
Orange	left of	Yellow
Green	Twist	
Orange	Flip	
Yellow	right of	Red
Green	left of	Red
Yellow	Twist	
Red	Twist	
Light Blue	Twist	

(each line has different brick orientation -
two lines have no bricks - **Red** on **Red**
first and last command the same)

L&R Twisted Option 1

Green	right of	twisted	Red
Yellow	left of	flipped	Dark Blue
Orange	right of	flipped	Green
Light Blue	left of	twisted	Yellow
Dark Blue	right of	flipped	Green
Green	left of	twisted	Red
Orange	left of	flipped	Red
Light Blue	right of	twisted	Green
Dark Blue	left of	twisted	Light Blue
Orange	left of	twisted	Dark Blue
Red		twisted	
Yellow	right of	flipped	Light Blue
Orange	right of	flipped	Dark Blue
Yellow	left of	twisted	Orange
Orange	left of	flipped	Light Blue
Yellow	right of	twisted	Orange
Green	in line with	twisted	Light Blue
Dark Blue	right of	twisted	Orange
Orange	in line with	twisted	Light Blue

All on Red line

Red flipped and Twisted

Which col did not move left or right ?

Red

L&R Twisted Option 2

	Dark Blue	left of	flipped	Red
twisted	Orange	right of		Yellow
	Light Blue	right of	twisted	Green
flipped	Yellow	left of		Dark Blue
	Red	left of	flipped	Dark Blue
twisted	Yellow	right of		Orange
	Green	left of	flipped	Dark Blue
flipped	Light Blue	left of		Orange
	Yellow	left of	twisted	Orange
flipped	Light Blue	left of		Dark Blue
	Orange	left of	flipped	Yellow
twisted	Yellow	left of	flipped	Orange
	Orange	left of	flipped	Dark Blue
	Dark Blue	in line with	twisted	Green

All end Far Left line

Three flipped - Three Normal

L&R Twisted Option 3

	Both Blues	right of	twisted	Red
	Yellow	on top of	twisted	Green
flipped	Orange	left of		Yellow
twisted	Red	right of	twisted	Light Blue
flipped	Dark Blue	left of	twisted	Orange
flipped	Light Blue	left of	twisted	Green
twisted	Orange	on top of	twisted	Light Blue
flipped	Dark Blue	right of		Yellow
flipped	Red	left of	twisted	Orange
twisted	Dark Blue	left of	flipped	Yellow
flipped	Red	right of	twisted	Dark Blue
	Both Blues	in line with	twisted	Red
	Red	on top of	twisted	Dark Blue
twisted	Orange	on top of	twisted	Red
twisted	Dark Blue	on top of	flipped	Yellow

All end stacked on Red line

L&R Twisted Option 4

flipped	Green	right of	twisted	Light Blue
twisted	Orange	left of	flipped	Dark Blue
twisted	Red	right of	flipped	Green
twisted	Light Blue	left of	twisted	Orange
flipped	Yellow	right of	flipped	Dark Blue
twisted	Green	left of	flipped	Yellow
twisted	Light Blue	right of	flipped	Orange
twisted	Red	left of	twisted	Orange
flipped	Yellow	left of	twisted	Green
flipped	Red	right of	flipped	Orange
flipped	Yellow	in line with	twisted	Light Blue
twisted	Orange	in line with	flipped	Dark Blue
twisted	Dark Blue	in line with	flipped	Red

All on Red line

Which col did not move ?

None