

Mastering micropipetting

Micropipetting masterpiece

You will need (per pair of learners):

- P200 micropipette
- Tubes of blue, red and yellow food dye
- Box of micropipette tips
- 96-well plate
- Waste disposal container
- Coordinates sheet A

Work in pairs to complete the micropipetting masterpiece using the coordinates from coordinates sheet A for the blue, red and yellow colours in the 96-well plate.

Person 1: Give the coordinates and colours for half of the wells to your partner, ticking off the coordinates once your partner has filled the wells. Then use a micropipette to dispense the correct coloured liquid into the remaining wells in the plate, following your partner's instructions.

Person 2: Use a micropipette to dispense the coloured liquids into the correct wells in the plate, following your partner's instructions. Then give the coordinates and colours for the remaining wells to your partner, ticking off the coordinates once your partner has filled the wells.

Make sure to change the pipette tip between different colours to stop cross-contamination (unwanted mixing of colours). The used pipette tip should be disposed of in the designated waste disposal container.

Once you have pipetted into all the correct wells of the plate, identify the image in your masterpiece.

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Micropipetting masterpiece coordinates

Coordinates sheet A

Blue		Red		Yellow
B2	E4	C2	F8	A4
B3	E5	C3	F9	A9
B10	E8	C10	G3	B5
B11	E9	C11	G5	B8
C1	E10	D2	G8	C6
C4	E11	D3	G10	C7
C5	G4	D4	H3	D6
C8	G9	D5	H4	D7
C9		D8	H9	E6
C12		D9	H10	E7
D1		D10		F6
D12		D11		F7
E2		F4		G6
E3		F5		G7

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You will need (per pair of learners):

- P200 micropipette
- Tubes of blue, red and yellow food dye
- Box of micropipette tips
- 96-well plate
- Waste disposal container
- Coordinates sheet B

Work in pairs to complete the micropipetting masterpiece using the coordinates from coordinates sheet B for the blue, red and yellow colours in the 96-well plate.

Person 1: Give the coordinates and colours for half of the wells to your partner, ticking off the coordinates once your partner has filled the wells. Then use a micropipette to dispense the correct coloured liquid into the remaining wells in the plate, following your partner's instructions.

Person 2: Use a micropipette to dispense the coloured liquids into the correct wells in the plate, following your partner's instructions. Then give the coordinates and colours for the remaining wells to your partner, ticking off the coordinates once your partner has filled the wells.

Make sure to change the pipette tip between different colours to stop cross-contamination (unwanted mixing of colours). The used pipette tip should be disposed of in the designated waste disposal container.

Once you have pipetted into all the correct wells of the plate, identify the image in your masterpiece.

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Micropipetting masterpiece coordinates

Coordinates sheet B

Blue	Red				Yellow
G3	A6	D2	E5	F8	C6
G5	A7	D3	E6	F9	C9
G9	A8	D4	E7	F10	E1
G11	A9	D5	E8	F11	
H4	B5	D6	E9	F12	
H10	B6	D7	E10		
	B7	D8	E11		
	B8	D9	E12		
	B9	D10	F2		
	B10	D11	F3		
	C5	D12	F4		
	C7	E2	F5		
	C8	E3	F6		
	C10	E4	F7		

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You will need (per pair of learners):

- P200 micropipette
- Tubes of blue, red and yellow food dye
- Box of micropipette tips
- 96-well plate
- Waste disposal container
- Coordinates sheet C

Work in pairs to complete the micropipetting masterpiece using the coordinates from coordinates sheet C for the blue, red and yellow colours in the 96-well plate.

Person 1: Give the coordinates and colours for half of the wells to your partner, ticking off the coordinates once your partner has filled the wells. Then use a micropipette to dispense the correct coloured liquid into the remaining wells in the plate, following your partner's instructions.

Person 2: Use a micropipette to dispense the coloured liquids into the correct wells in the plate, following your partner's instructions. Then give the coordinates and colours for the remaining wells to your partner, ticking off the coordinates once your partner has filled the wells.

Make sure to change the pipette tip between different colours to stop cross-contamination (unwanted mixing of colours). The used pipette tip should be disposed of in the designated waste disposal container.

Once you have pipetted into all the correct wells of the plate, identify the image in your masterpiece.

Mastering micropipetting

Micropipetting masterpiece coordinates

Coordinates sheet C

Blue		
C3	E4	G5
C4	E5	G11
C5	E6	G12
C6	E7	
D1	E8	
D2	E9	
D4	F2	
D5	F3	
D6	F4	
D7	F5	
D8	F6	
E1	F7	
E2	F10	
E3	G3	

Red	
A5	G4
A6	H4
A7	H5
A8	H6
A12	
B4	
B5	
B11	
B12	
C10	
D9	
D10	
E10	
F11	

Yellow
D3