

Matariki Coordinates Activity

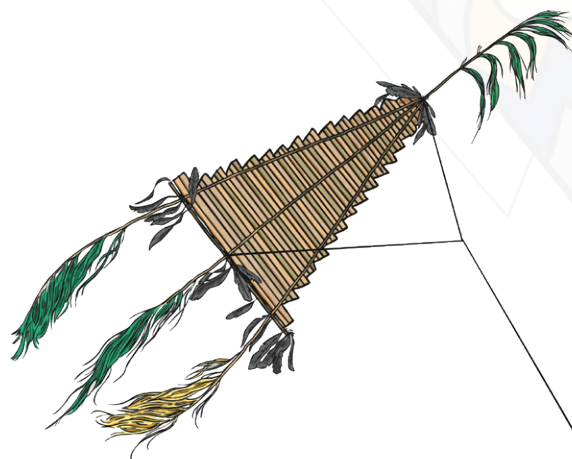
Glue a blank coordinates template into your book. Select one of the plotting coordinates to complete. Plot the dots first, then join them up with the lines to create the design pattern. You can then colour in your Matariki design.

Matariki Design One

Plot the coordinates first and then join with lines. Remember, the first number is the x-axis (horizontal) and the second number is the y-axis (vertical).

(8, 8), (7, 8), (6, 7), (5, 6), (5, 5), (4, 4), (4, 3), (4, 2), (3, 1), (3, 0), (2, -1), (2, -2), (1, -3), (1, -4), (0, -5), (-1, -6), (-2, -5), (-3, -4), (-4, -3), (-5, -2), (-6, -1), (-7, 0), (-6, 1), (-5, 2), (-4, 2), (-3, 3), (-2, 3), (-1, 4), (0, 4), (1, 5), (2, 5), (3, 5), (4, 6), (5, 6) STOP

- Add (5, 6), (6, 6) and curve to (7, 5)
- Add (6, 7), (7, 7) and curve to (8, 6)
- Add (-6, -1) curve to (-7, -2), (-7, -3), (-7, -4), (-7, -5)
- Add (-4, -3) curve to (-5, -4), (-5, -5), (-5, -6), (-5, -7)
- Add (-2, -5) curve to (-3, -6), (-3, -7), (-3, -8), (-3, -9)



Matariki Design Two

Plot the coordinates first and then join with lines. Remember, the first number is the x-axis (horizontal) and the second number is the y-axis (vertical).

These start in the top quadrants.

(-6, 9), curve to (-7, 8), (-7, 7), (-7, 6), (7, 5), (-7, 4), (-7, 3), (-7, 2), curve to (-6, 1), curve to (-5, 2), (-5, 3), (-5, 4), (-5, 5), (-5, 6), (-5, 7), (-5, 8), curve to (-6, 9) STOP

Add (-6,10) and connect.

(-4, 9), curve to (-5, 8), (-5, 7), (-5, 6), (-5, 5), (-5, 4), (-5, 3), (-5, 2), curve to (-4, 1), curve to (-3, 2), (-3, 3), (-3, 4), (-3, 5), (-3, 6), (-3, 7), (-3, 8), curve to (-4, 9) STOP

Add (-4, 10) and connect.

(-2, 9), curve to (-3, 8), (-3, 7), (-3, 6), (-3, 5), (-3, 4), (-3, 3), (-3, 2), curve to (-2, 1), curve to (-1, 2), (-1, 3), (-1, 4), (-1, 5), (-1, 6), (-1, 7), (-1, 8), curve to (-2, 9) STOP

Add (-2,10) and connect.

(0, 9), curve to (-1, 8), (-1, 7), (-1, 6), (-1, 5), (-1, 4), (-1, 3), (-1, 2), curve to (0, 1), curve to (1, 2), (1, 3), (1, 4), (1, 5), (1, 6), (1, 7), (1, 8), curve to (0, 9) STOP

Add (0,10) and connect.

(2, 9), curve to (1, 8), (1, 7), (1, 6), (1, 5), (1, 4), (1, 3), (1, 2), curve to (2, 1), curve to (3, 2), (3, 3), (3, 4), (3, 5), (3, 6), (3, 7), (3, 8), curve to (2, 9) STOP

Add (2, 10) and connect.

(4, 9), (3, 8), (3, 7), (3, 6), (3, 5), (3, 4), (3, 3), (3, 2), curve to (4, 1), curve to (5, 2), (5, 3), (5, 4), (5, 5), (5, 6), (5, 7), (5, 8), curve to (4, 9) STOP

Add (4, 10) and connect.

Matariki Design Two

These start in the top quadrants but work into the bottom quadrants.

$(-5, 1)$, curve to $(-6, 0)$, $(-6, -1)$, $(-6, -2)$, $(-6, -3)$, $(-6, -4)$, $(-6, -5)$, $(6, -6)$, curve to $(-5, -7)$, curve to $(-4, -6)$, $(-4, -5)$, $(-4, -4)$, $(-4, -3)$, $(-4, -2)$, $(-4, -1)$, $(-4, 0)$, curve to $(-5, 1)$ STOP

Add $(-5, 2)$ and connect.

$(-3, 1)$, curve to $(-4, 0)$, $(-4, -1)$, $(-4, -2)$, $(-4, -3)$, $(-4, -4)$, $(-4, -5)$, $(-4, -6)$, curve to $(-3, -7)$, curve to $(-2, -6)$, $(-2, -5)$, $(-2, -4)$, $(-2, -3)$, $(-2, -2)$, $(-2, -1)$, $(-2, 0)$, curve to $(-3, 1)$ STOP

Add $(-3, 2)$ and connect.

$(-1, 1)$, curve to $(-2, 0)$, $(-2, -1)$, $(-2, -2)$, $(-2, -3)$, $(-2, -4)$, $(-2, -5)$, $(-2, -6)$, curve to $(-1, -7)$, curve to $(0, -6)$, $(0, -5)$, $(0, -4)$, $(0, -3)$, $(0, -2)$, $(0, -1)$, $(0, 0)$, curve to $(-1, 1)$ STOP

Add $(-1, -2)$ and connect.

$(1, 1)$, curve to $(0, 0)$, $(0, -1)$, $(0, -2)$, $(0, -3)$, $(0, -4)$, $(0, -5)$, $(0, -6)$, curve to $(1, -7)$, curve to $(2, -6)$, $(2, -5)$, $(2, -4)$, $(2, -3)$, $(2, -2)$, $(2, -1)$, $(2, 0)$, curve to $(1, -1)$ STOP

Add $(1, 2)$ and connect.

$(3, 1)$, curve to $(2, 0)$, $(2, -1)$, $(2, -2)$, $(2, -3)$, $(2, -4)$, $(2, -5)$, $(2, -6)$, curve to $(3, -7)$, curve to $(4, -6)$, $(4, -5)$, $(4, -4)$, $(4, -3)$, $(4, -2)$, $(4, -1)$, $(4, 0)$, curve to $(3, 1)$ STOP

Add $(3, 2)$ and connect.



Matariki Design Three

Plot the coordinates first and then join with lines. Remember, the first number is the x-axis (horizontal) and the second number is the y-axis (vertical).

Step 1 - Plot the coordinates.

(-3, 6), (-5, 5), (-6, 3), (-7, 0), (-6, -3), (-5, -5), (-3, -6), (0, -7), (3, -6), (5, -5), (6, -3), (7, 0), (6, 3), (5, 5), (3, 6), (0, 7) STOP - Link all by curving gently and forming a circle perimeter

Step 2 - Shape

Line 1

(-5, 5), (-4, 5), (-3, 5), (-2, 5), (-1, 4), (0, 3), (1, 2), (2, 1), (2, 0), (2, -1), (1, -1), (0, -1), (-1, -1), (0, 0) Join carefully

Line 2

(0, 7), (1, 6), (2, 5), (3, 4), (4, 3), (4, 2), (4, 1), (4, 0), (4, -1), (3, -2), (2, -2), (1, -2), (0, -2), (-1, -2), (-2, -1), (-1, 0), (0, 0) Join carefully

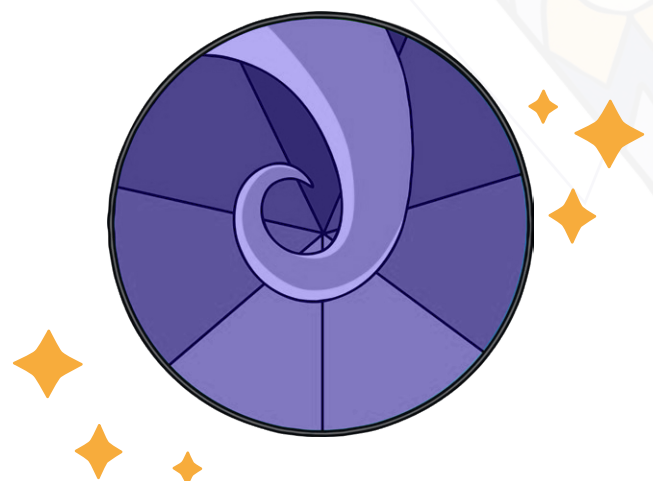
Step 3 - Design

(-5, -5), (-2, -3), (0, -2) Join lines

(5, -5), (2, -3), (0, -2) Join lines

(-3, -6), (-2, -4), (0, -3) Join lines

(3, -6), (2, -4), (0, -3) Join lines



Matariki Design Four

Plot the coordinates first and then join with lines. Remember, the first number is the x-axis (horizontal) and the second number is the y-axis (vertical).

(0, 8), (1, 5), (2, 2), (5, 1), (8, 0), (5, -1), (2, -2), (1, -5), (0, -8), (-1, -5), (-2, -2), (-5, -1), (-8, 0), (-5, 1), (-2, 2), (-1, 5), (0, 8) STOP

Join lines

(0, 6), (1, 1), (0, 5), (-1, 1), (-6, 0), (-1, -1), (0, -5), (-1, 1), (6, 0) STOP

Join lines

