RENEE SCHUMACHER

Brain Break: From Parabolic Curves to Mandalas

TEACH IN COLOR:
K-8 ARTS INTEGRATION
AND STEAM CONFERENCE

THINGS TO PREPARE

3 SHEETS COPY PAPER

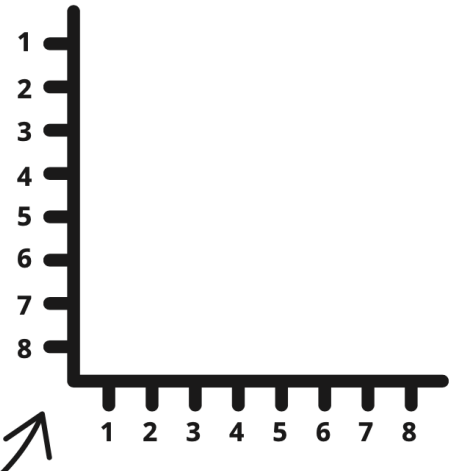
RULER

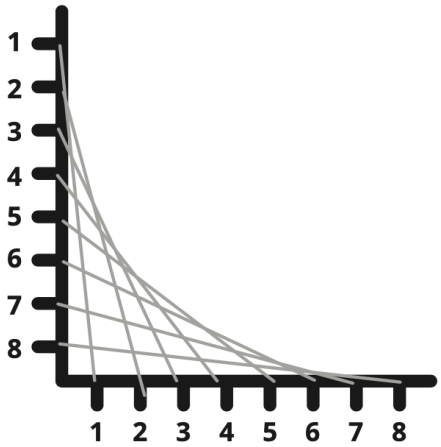
PENCIL

COLORED PENCILS/PEN *(OPTIONAL)*

1

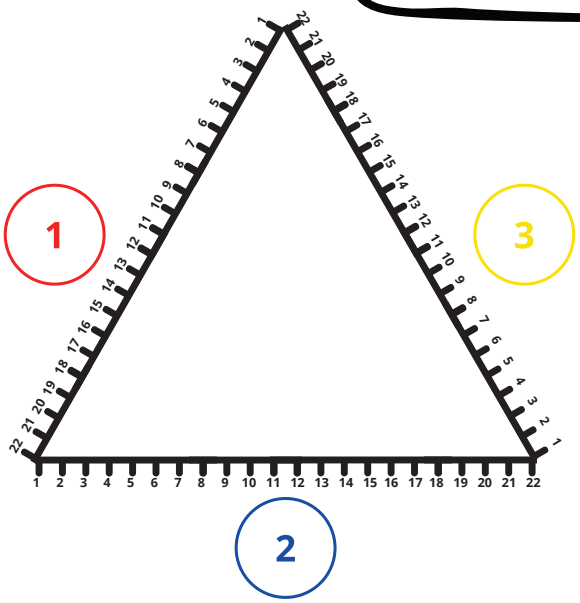
You can make curves from straight lines! Using your ruler, draw a straight line from 1-1, 2-2, and so on. This is a PARABOLIC CURVE.

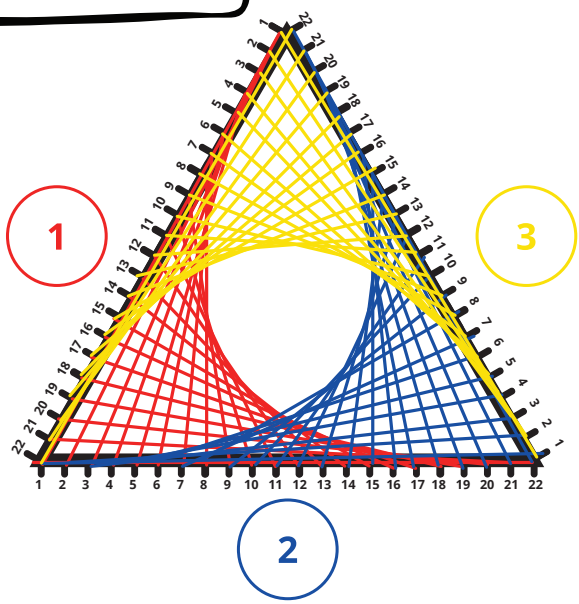




2

Overlapping Parabolic Curves creates interesting intersections! Connect corresponding numbers around the triangle. One to two, two to three, and three to one.





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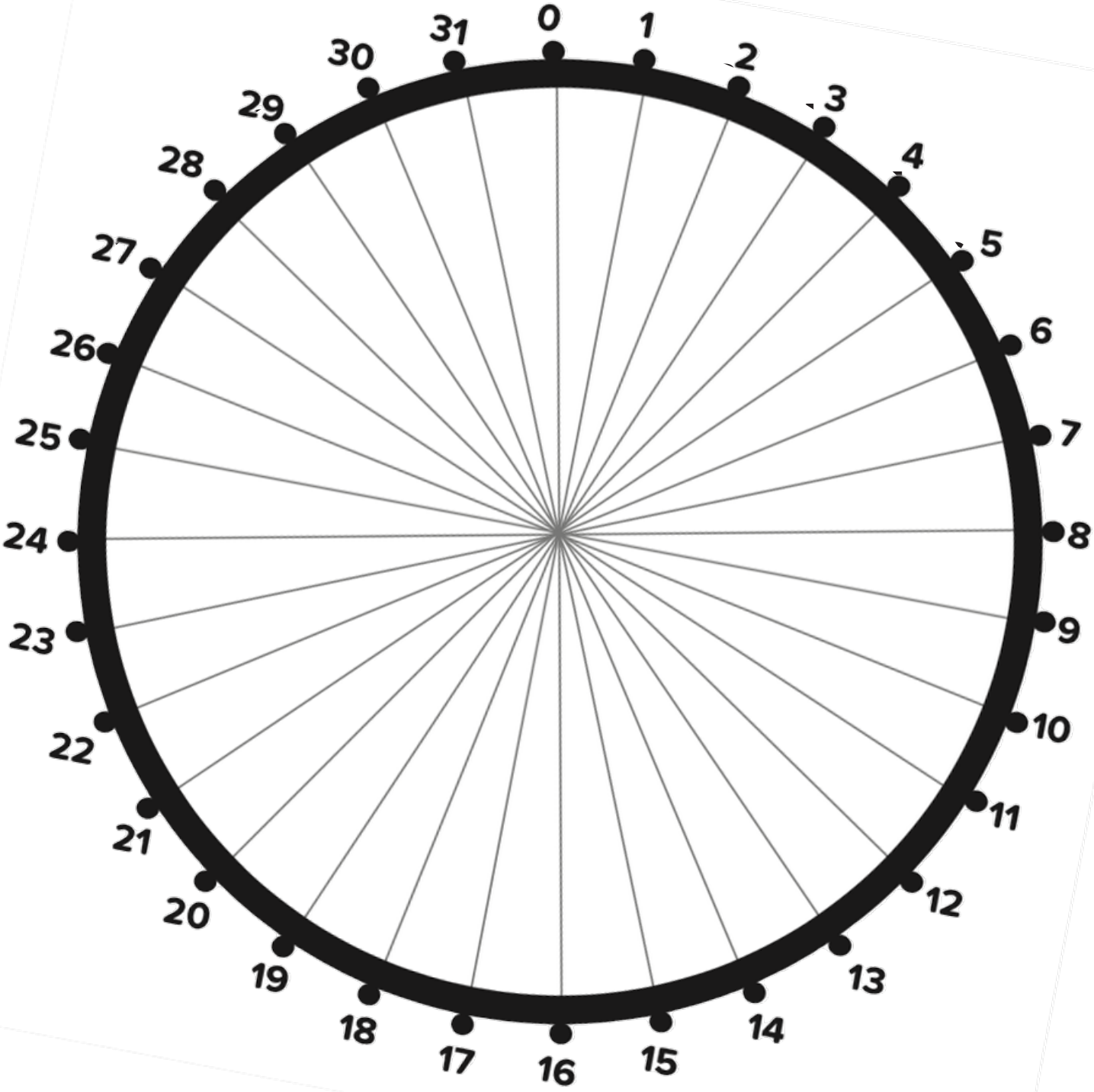
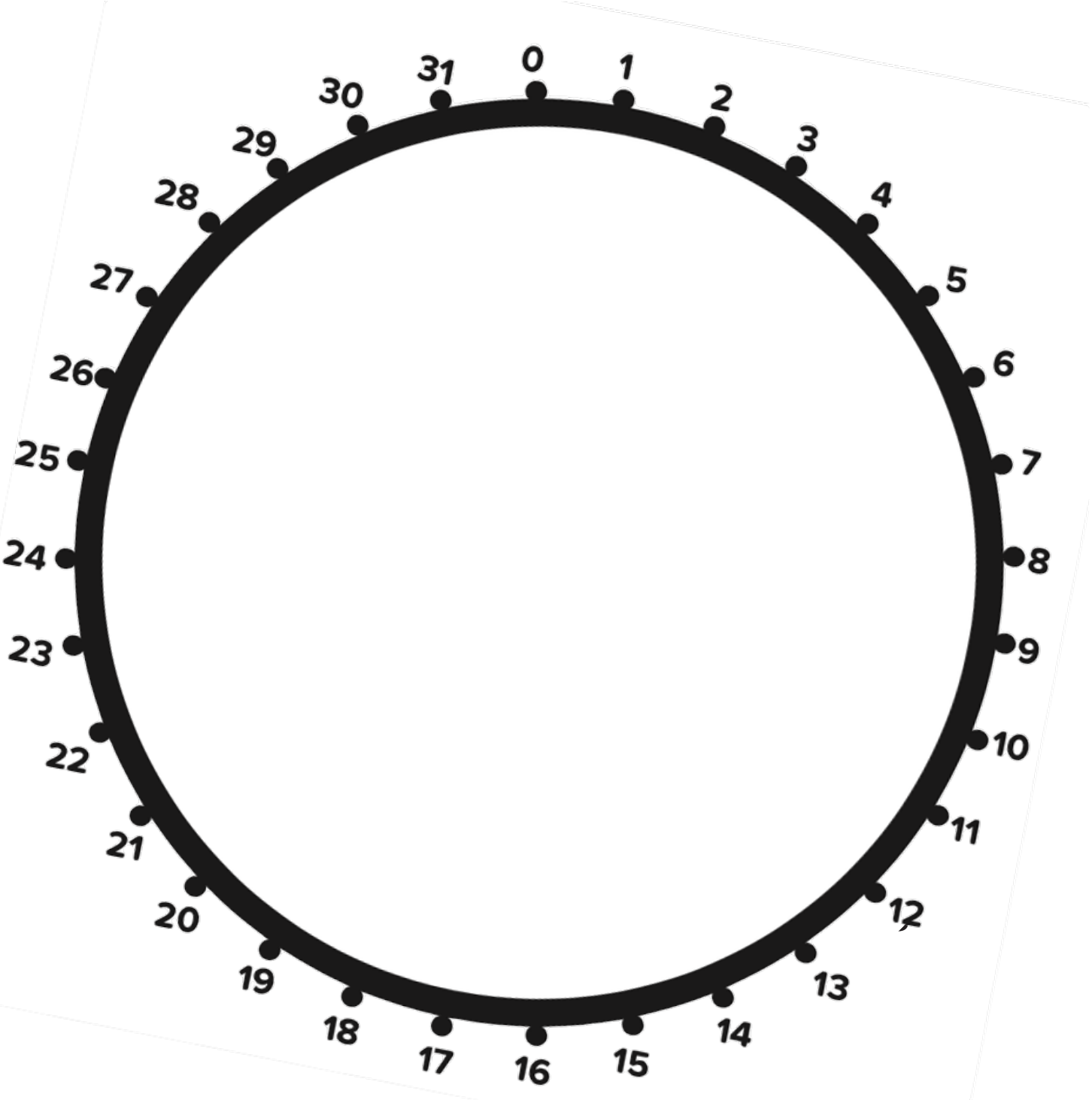
3

Draw a circle approximately 6 inches in diameter. Divide the circle in half 16 times to create 32 sections. Mark the half points with little tick marks alongthe outside of the circle. Label '0-31'

(This model shows the dividing lines in the center for reference)





To create a series of three overlapping parabolic curve line sets, follow these patterns

SERIES ONE

Starting on 0, connect a line every 5 numbers.

0 to 5, 5 to 10, 10 to 15, 15 to 20, 20 to 25, 25 to 30, 30 to 3, 3 to 8, etc. until you end on 0 again.

SERIES TWO

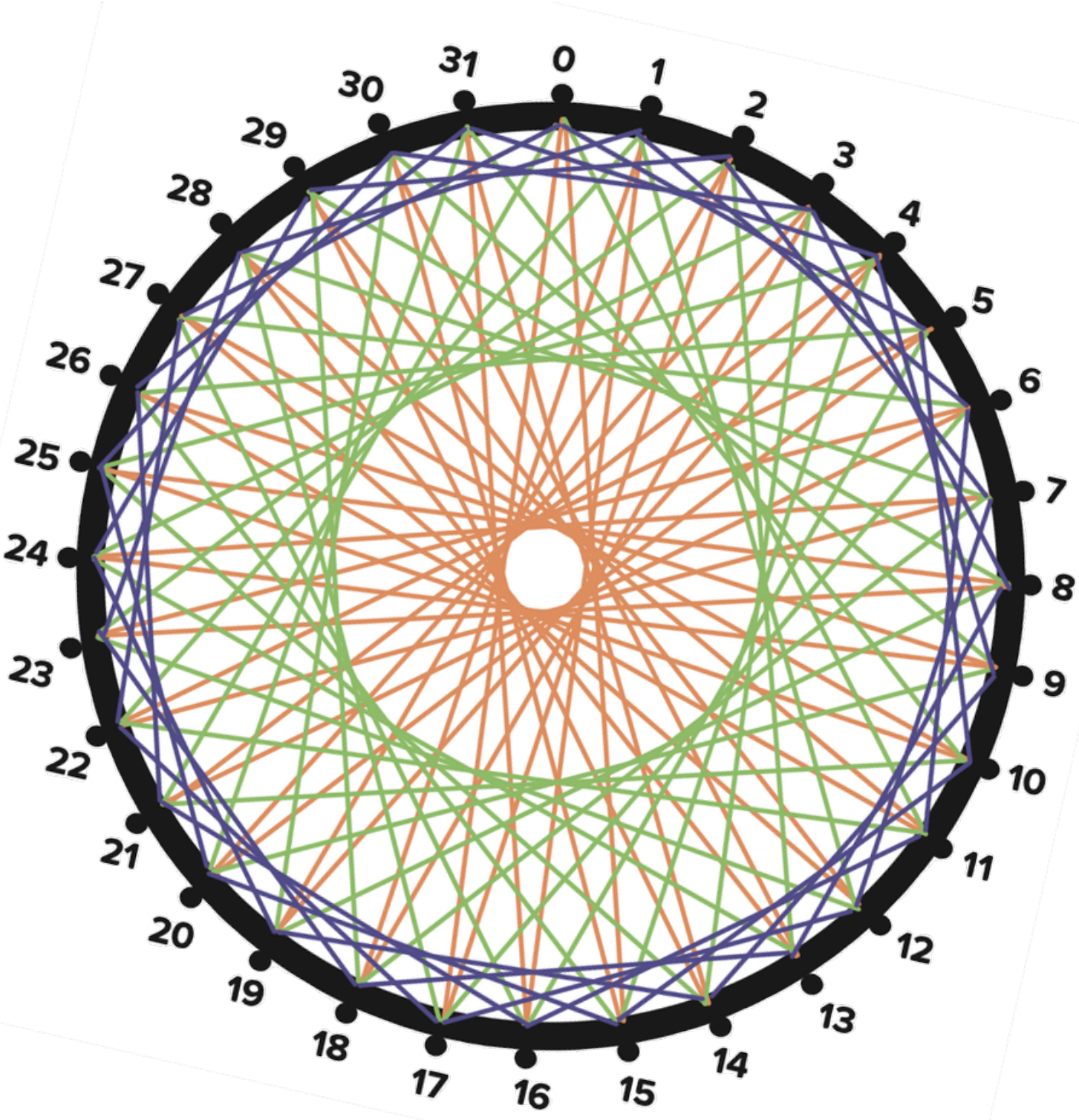
Starting on 0 again, connect a line every 11 numbers.

0 to 11, 11 to 22, 22 to 1, 1 to 12, 12 to 23, 23 to 2, 2 to 13, etc. until you end on 0 again.

SERIES THREE

Starting on 0, connect a line every 15 numbers.

0 to 15, 15 to 30, 30 to 13, 13 to 28, 28 to 11, 11 to26, 26 to 9, 9 to 24, etc. until you end on 0 again.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