



Grade 3 Calendar Quests – Count By 3 Egyptian Numerals

Monthly Math Calendar Patterns

Aligned with the BC Math Curriculum

Egyptian Numerals Count By Three

Pattern Overview

This month's pattern represents triples of the date using Egyptian numerals. The pattern has two elements, the numbers represented with Ancient Egyptian Numerals and a two colour pattern alternating between blue and green.

Preparation

The Cards

1. Print the Calendar Quest cards on white cardstock for best results. The cards are designed at a 10cmx10cm size, it maybe necessary to scale them to fit your calendar pocket chart.
2. Cut the cards out on the black lines
3. Place the cards printed side facing towards the pocket chart in your calendar pocket chart.

The Observations Chart

1. On a sheet of chart paper draw vertical lines to create four columns
 - a. Date
 - b. Colour
 - c. Ancient Egyptian Numeral
 - d. Modern Number
2. Fill in the date column for this month
3. Hang up your observations chart

Daily Activities

Day 1 - Introducing the Calendar Quest to Students

1. Have any of the days that have already passed this month flipped right side out.
2. Ask students what they see when they look at the cards.

Day 2

1. Ask students what they see when they look at at the cards
2. Have students predict what today's card will be
3. Introduce the calendar quest observations chart
4. What do students notice about the chart?
5. Fill in the chart for the days so far – do not fill in the modern numeral

Days 3-9 update

1. Review the cards already on the chart
2. Predict today's card
3. Record today's card on the observations chart

Day 10

1. Update as before
2. Reveal the first line of the Decoder Key
3. Ask students to use the Decoder Key to see if they can solve any of the patterns
4. Have students predict what the other characters on the chart could mean
5. Reveal the third line of the Decoder Key
6. Discuss what it means

Day 11

1. Update as before

Day 12

1. Update as before
2. Reveal the second line of the Decoder Key
3. Have students make a connection between the numbers they see on the cards and modern numerals

Day 13-15

1. Update as before

Day 16+

1. Update as before
2. Model the number with base ten blocks as a class

Last day of the month

1. Review everything on the chart
2. Hand out the calendar extender sheets
3. Students complete extender sheet on own

Sample Calendar Quest Observation Chart

Date	Colour	Ancient Egyptian numeral	Modern numeral
1.	Blue		3
2.	Green		6
3.	Blue		9
4.	Green	⊖	12
5.	Blue	⊖	15
6.	Green	⊖	18
7.	Blue	⊖	21
8.	Green	⊖	24
9.	Blue	⊖	27
10	Green	⊖⊖	30
11	Blue	⊖⊖	33
12	Green	⊖⊖	36
13	Blue	⊖⊖	39
14	Green	⊖⊖	42
15	Blue	⊖⊖	45
16	Green	⊖⊖	48
17	Blue	⊖⊖⊖	51
18	Green	⊖⊖⊖	54
19	Blue	⊖⊖⊖	57
20	Green	⊖⊖⊖⊖	60
21	Blue	⊖⊖⊖⊖	63
22	Green	⊖⊖⊖⊖	66
23	Blue	⊖⊖⊖⊖	69
24	Green	⊖⊖⊖⊖	72
25	Blue	⊖⊖⊖⊖	75
26	Green	⊖⊖⊖⊖	78
27	Blue	⊖⊖⊖⊖	81
28	Green	⊖⊖⊖⊖	84
29	Blue	⊖⊖⊖⊖	87

30	Green	○○○ ○○○ ○○○	90
31	Blue	○○○ ○○○ ○○○ III	93

Calendar Quest Cards

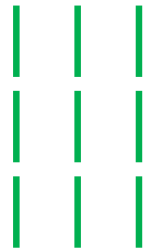
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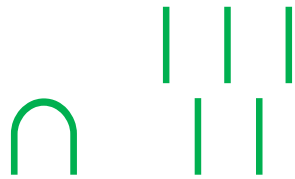
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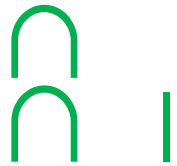
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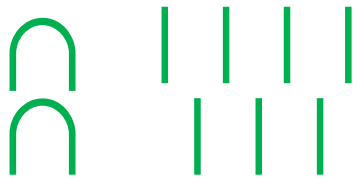
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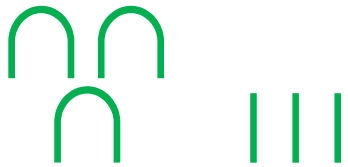
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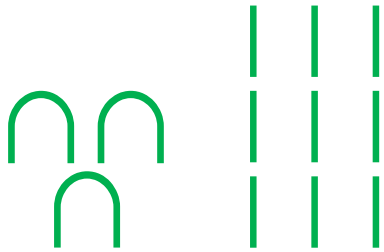
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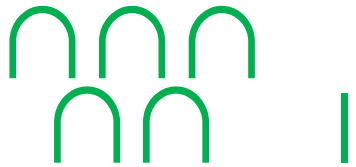
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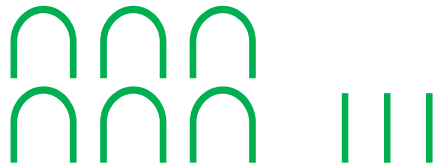
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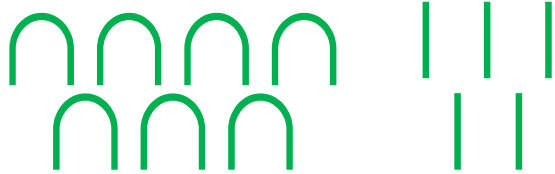
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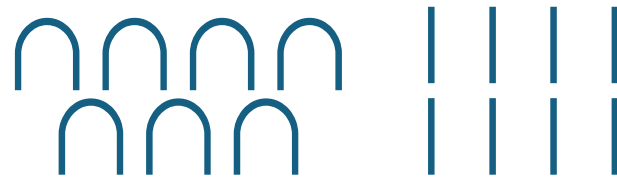
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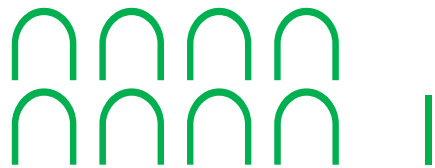
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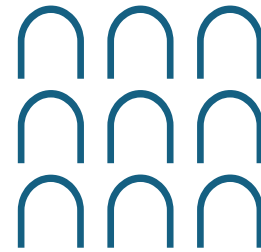
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29



30



31



Decoder Key

Ancient Egyptian Numeral	Modern Numeral
	1
∩	10
∩	100
∩	1000

