

Strand: _____ **Numbers and Operations** _____ **Name:** _____
Skill Addressed: Number Patterns and Multiplication Facts **Block:** ____
Activity: *Patterns in the 100's Chart*

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

The Table above is called a *Hundreds Chart*.

Select a **color** and lightly shade in all multiples of 7.

What do you notice?

Possible observations: There are diagonal patterns (down two and right three) or (down 3 and left two). There are multiples of 7 in every column and row. _____

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Here is another 100s chart. Select a different **color** and lightly shade in all multiples of another number of your choice. *I chose 6*

What do you notice?

Possible observations: There are diagonal patterns (down one and right two) etc. There are multiples in only the "even" columns. (why?) _____

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Here is another 100s chart. Select a different color and lightly shade in all multiples of another number of your choice. *I chose 11*

What do you notice?

It is on a diagonal and the most simple of all three patterns.

What is your favourite pattern of the three you colored and why?

The second one because there are more patterns.

Are there any other number patterns that you can find in the chart? Describe them.

- *each column has the same "ones" digit*
- *each row has the same "tens" digit*
- *all multiples of 9 have a digital root of 9*
- *all "increasing" diagonals (/) have the same digital root*
- *etc..*
