

Shady Circles

On the first block of circles, shade in every third circle starting from the second, counting left to right, row by row.

What did you find happened as you were shading the circles....?

On the second block of circles, shade in every third circle starting from the second but this time counting from left to right in the first row, then right to left in the second and so on (weaving your way down the rows).

Look out for when your brain moves from counting to having confidence in the pattern...

On the third block, devise your own rule for shading the circles and give it to someone else to try! *Does a pattern develop?*

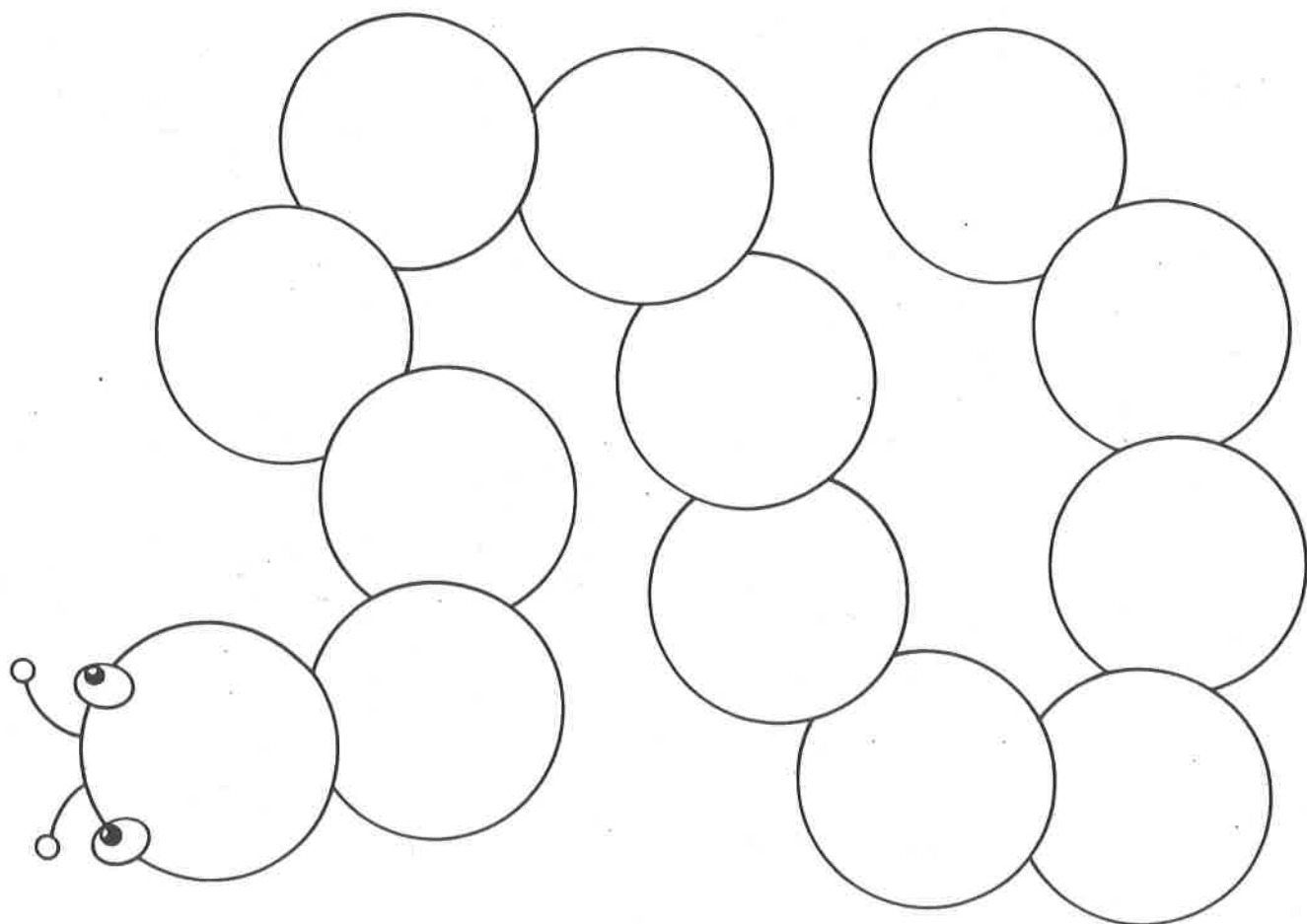
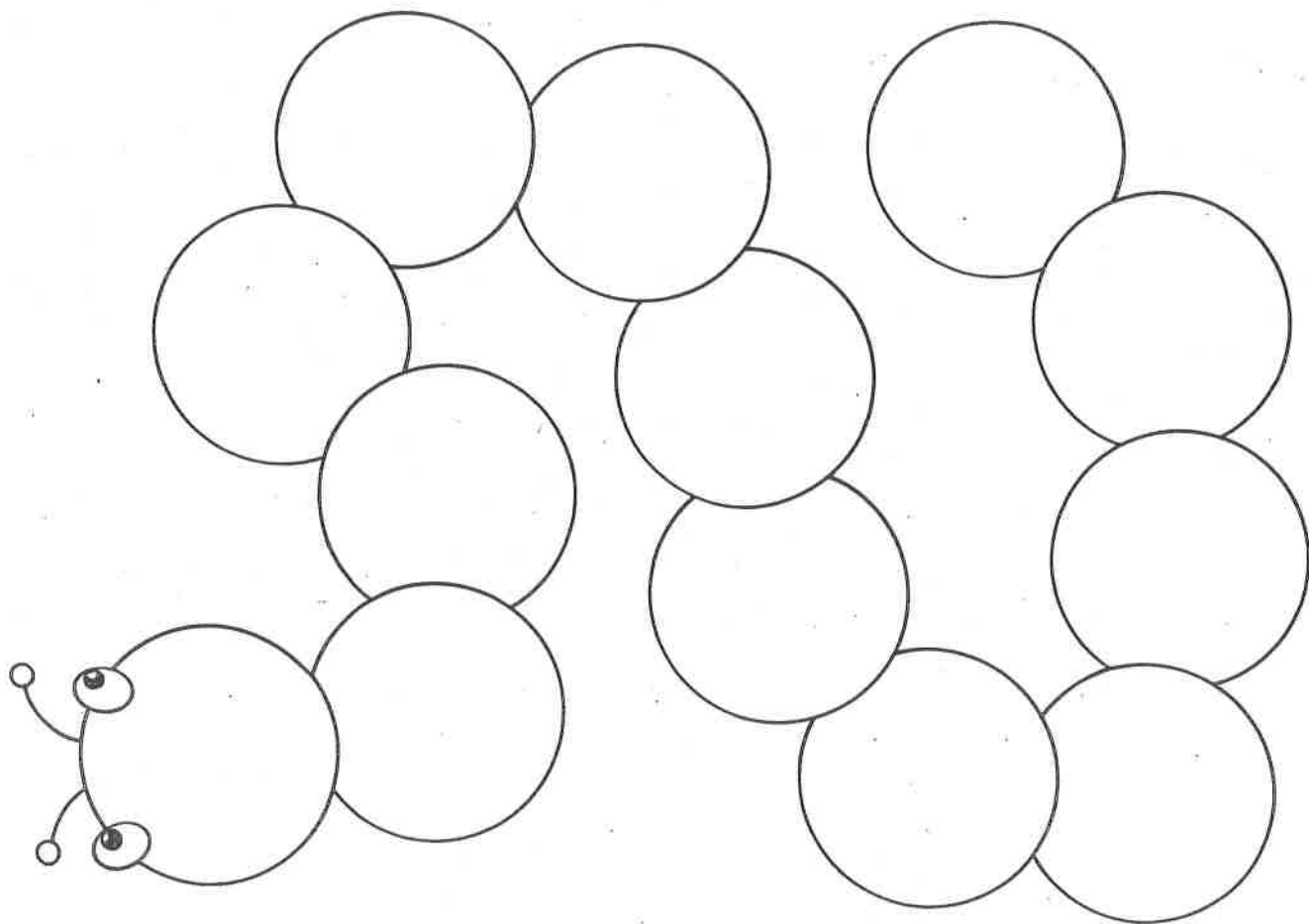
This is an exercise for adults but we can give children lots of different experiences with patterns to help them to develop;

- ✓ a sense of pattern
- ✓ confidence in identifying patterns
- ✓ logical thinking or reasoning
- ✓ an understanding of how pattern can help them in calculating with numbers

Chinese 1-50

一	二	三	四	五	六	七	八	九	十
十一	十二	十三	十四	十五	十六	十七	十八	十九	二十
二十一	二十二	二十三	二十四	二十五	二十六	二十七	二十八	二十九	三十
三十一	三十二	三十三	三十四	三十五	三十六	三十七	三十八	三十九	四十
四十一	四十二	四十三	四十四	四十五	四十六	四十七	四十八	四十九	五十

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



0	1	3	2	4	3
8	6	1	7	8	0
7	2	9	9	0	□
2	3	4	2	8	5
9	4	9	5	7	2