

Dice Patterns

Use number cards 1 - 20 , or '20 cards' ITP, and a dice

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20



Roll the dice and read the number on the top, leave card number 1 then turn over the same number of cards as the number on the dice, leave the next card then repeat the process.

1				5				9	
		13				17			
21	this is the pattern for a dice throw of 3								

- Record the number patterns made
- Predict the numbers after 20 that will be left face up
- Try patterns where the 1 is turned over (have 0 as the first number)
 - Try starting at 20 and counting backwards

Learning and Teaching Objectives

- Describe a rule of a pattern or relationship in words or pictures
- Predict the next few terms in a sequence to test the rule
- Say whether a given number will be in a sequence or not using reasoning

Dice Patterns Solution

Dice Roll 1 \rightarrow 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, ...

Dice Roll 2 \rightarrow 1, 4, 7, 10, 13, 16, 19, ...

Dice Roll 3 \rightarrow 1, 5, 9, 13, 17, ...

Dice Roll 4 \rightarrow 1, 6, 11, 16, ...

Dice Roll 5 \rightarrow 1, 7, 13, 19, ...

Dice Roll 6 \rightarrow 1, 8, 15, ...