

Fractal Cutout Cards

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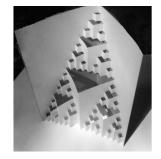
2. What are three types of fractal patterns?					
a)	b)	c)			

3. Draw an example of each type of fractal pattern.

a)	b)	c)
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4. Cutout card activity

Number of times you've cut	Number of folds you had to	Math notation (fill in the
your pattern	reverse this time	blank)
0		20
1		21 = 2 x
2		2 ² = 2 x
3		2 ³ = 2 x
4		24 = 2 x



Name:	

Fractal Cutout Cards

Adaptations to different grades

- 2nd and up: measure lengths, estimate length of subsequent cuts
- 3rd and up: determine area, use division, determine attributes of shape cutting out
- 4th and up: measure angles, discuss types of triangles, fractions bigger, smaller and addition, determine trends and predict subsequent steps
- 5th and up: graph number of patterns and numbers of triangles for each iteration what type of line do data create?; measure surface area, area and volume
- 6th and up: ratios and proportional relationships, do statistics on measurements discuss samples and spread; graph distribution and standard deviation

Measure, count, bigger smaller, fractions – how much bigger, measure angles, types of triangles or shapes, count the steps Instruction video online!

Where have you seen fractal patterns in your environment?