Name(s)	Period	Date	

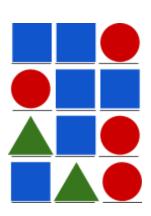
Activity Guide: Circle-Triangle-Square

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Instructions

Given 3 places to work with, make as many *unique* patterns as you can using only circles, triangles and squares.

The diagram on the right shows a few examples of some 3-place patterns. NOTE: Order matters, so, for example: Circle-Triangle-Square is a different pattern than Square-Circle-Triangle, even though both have one of each shape.



Challenge 1 - Find all of the 3-place patterns

Record all of the unique 3-place patterns you can find in the template started below.

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Suggestion: think about trying to find the patterns in an organized or systematic way, rather than just

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Challenge 2 - make a system for generating all the patterns

Now that you've listed out all of the 3-place patterns of circles, triangles, and squares, let's put them in a systematic order. You can use any system you like, as long as you create and follow a clear set of rules for getting from one line to the next.

Suggestion: Use the space below to reorder the patterns on the other side of the page using a consistent system. Number each line to make sure you have them all.

Jot down the rules of your system below.

Suggestion: to test your rules, have someone follow them to see if they can recreate your organized list above.