

DAY TWO

Today we explored the art and mathematics of 3D paper puzzles (modular kirigami) and knitting. Check out the iAM blog to read what the girls wrote about today's experience: <http://iamcamp.wp.txstate.edu/>

TALK ABOUT IT

Have you seen any other sculptures that look mathematical?

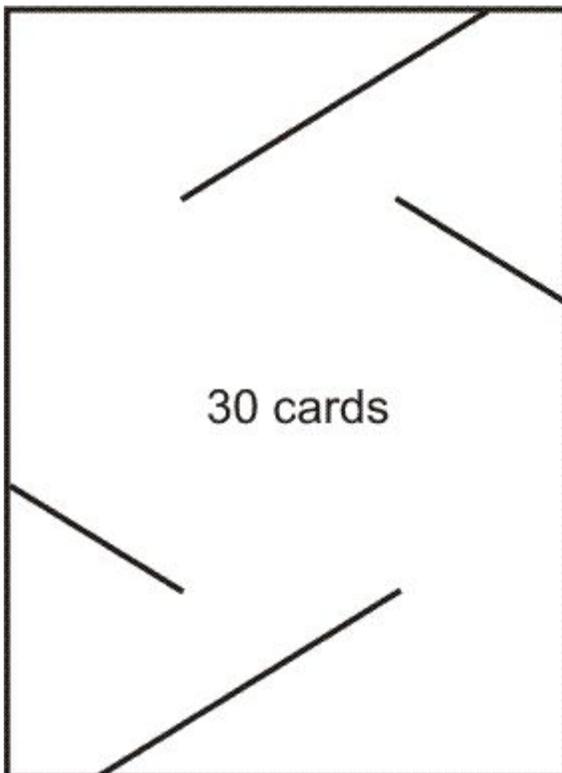
When each piece of the paper puzzle is the same, what is the role of translation and rotation?

What are the characteristics of a Platonic solid?

BUILD UPON IT AT HOME

ACTIVITY ONE

Create your own paper puzzle by making a modular kirigami sculpture using a deck of playing card (or scrap paper), pencil, and scissors. How many uses can you think of for the sculpture?



ACTIVITY TWO

Construct a 3D sculpture out of pencils. How many pencils do you think it takes to create this? What shapes do the intersections create? Explore this sculpture more online: <http://www.georgehart.com/sculpture/pencils.html>



ACTIVITY THREE

Try out some easy “Finger Knitting” by following these steps:

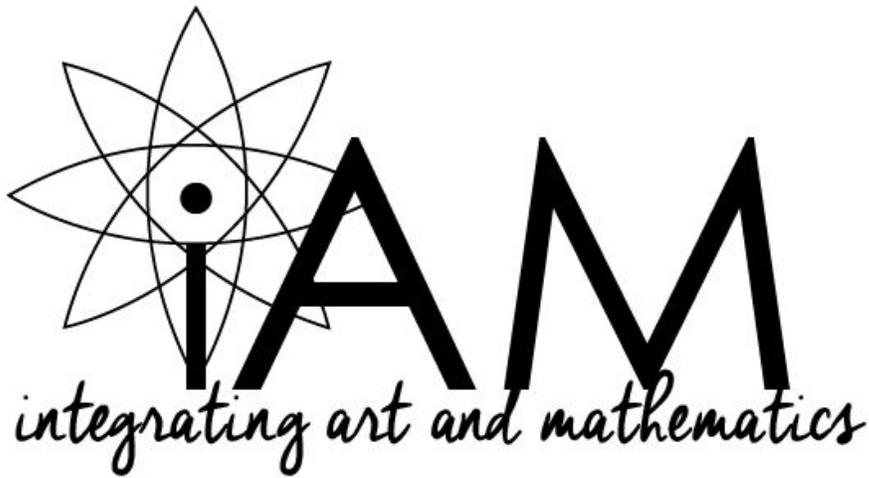


Watch this video to see it in action: <https://www.youtube.com/watch?v=MsZsUBYU0qU>

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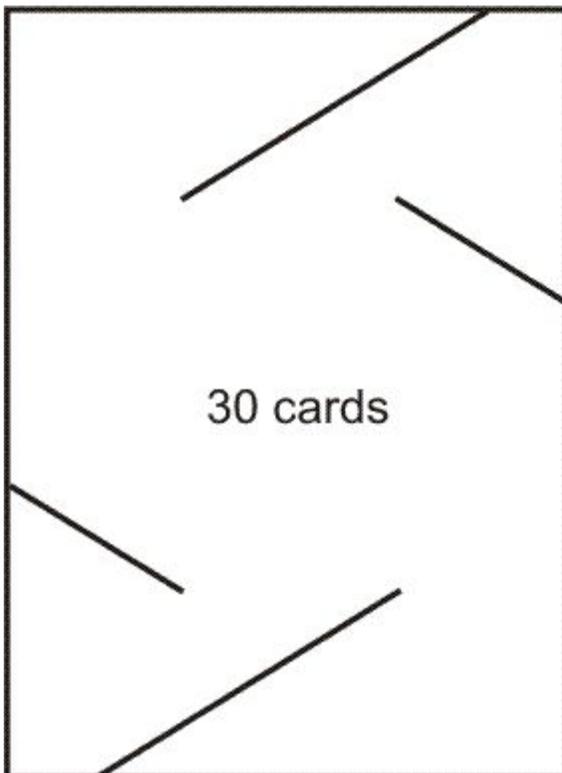
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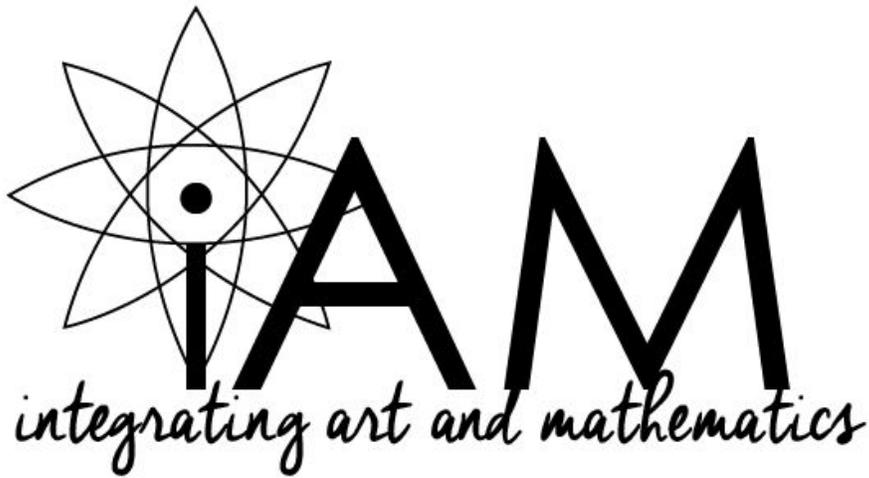


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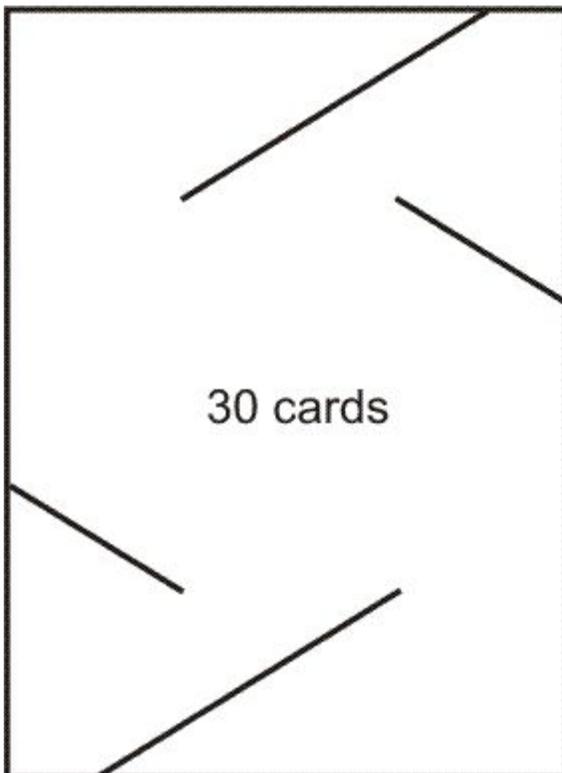
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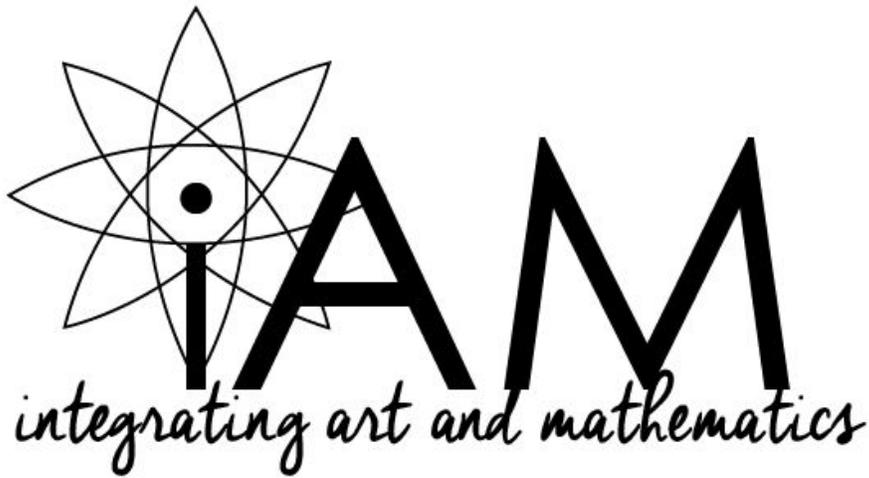


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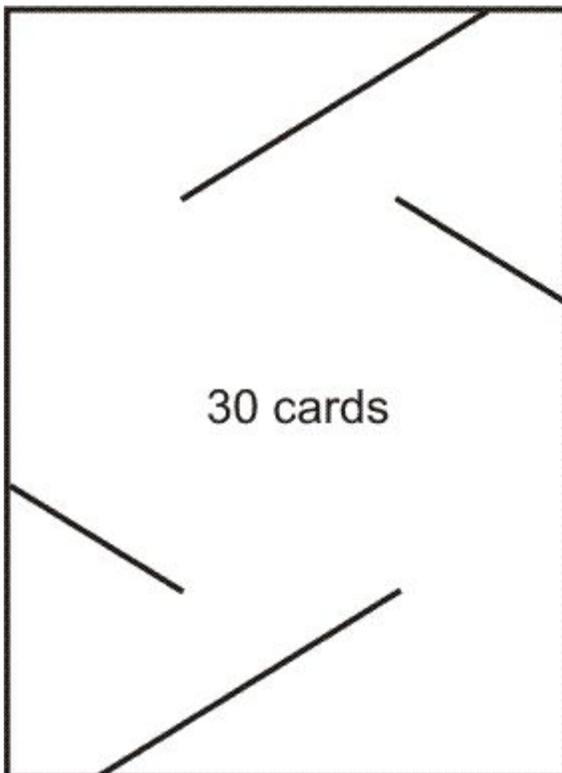
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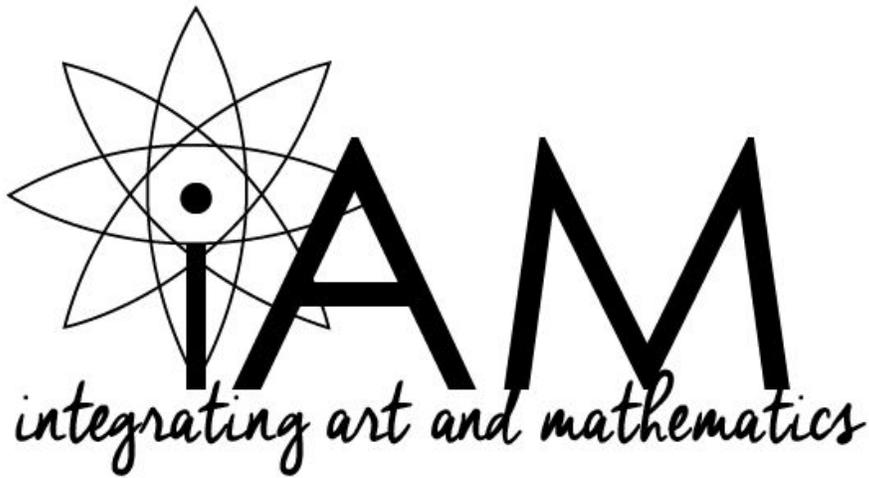


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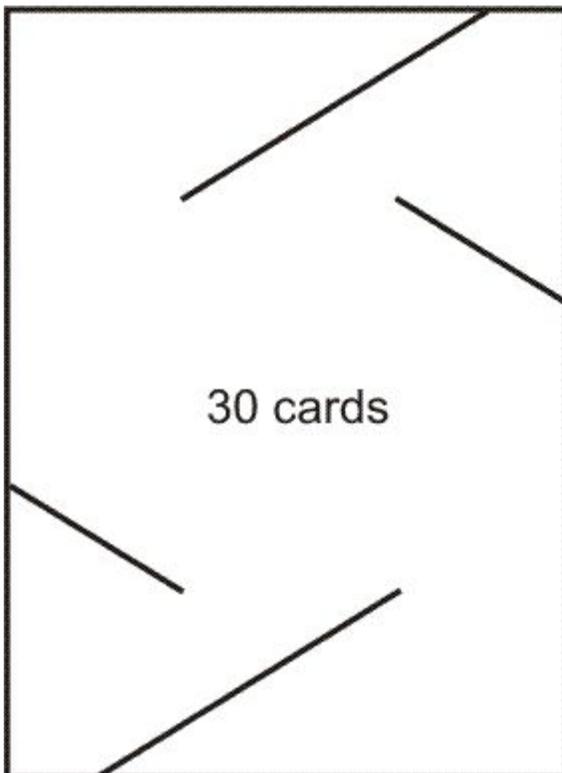
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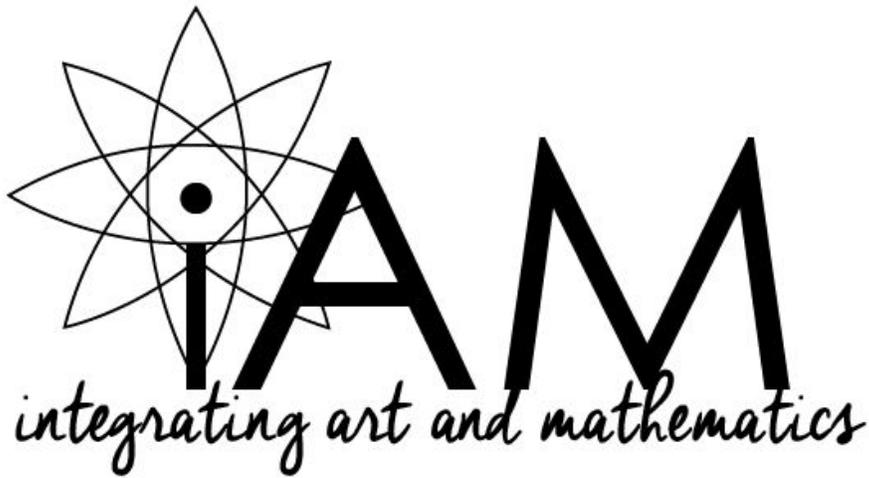
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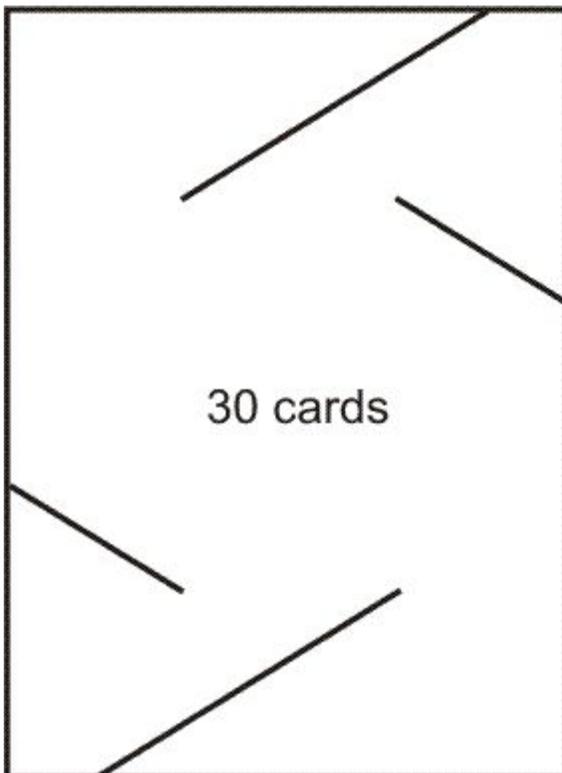
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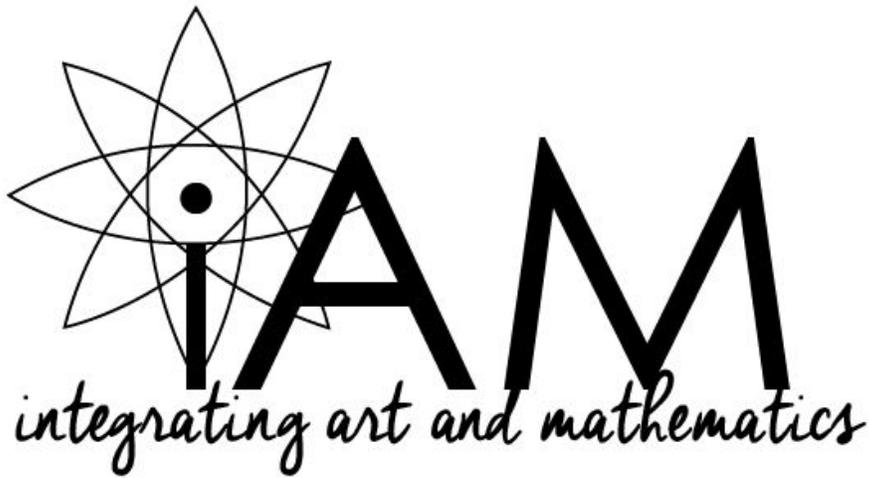


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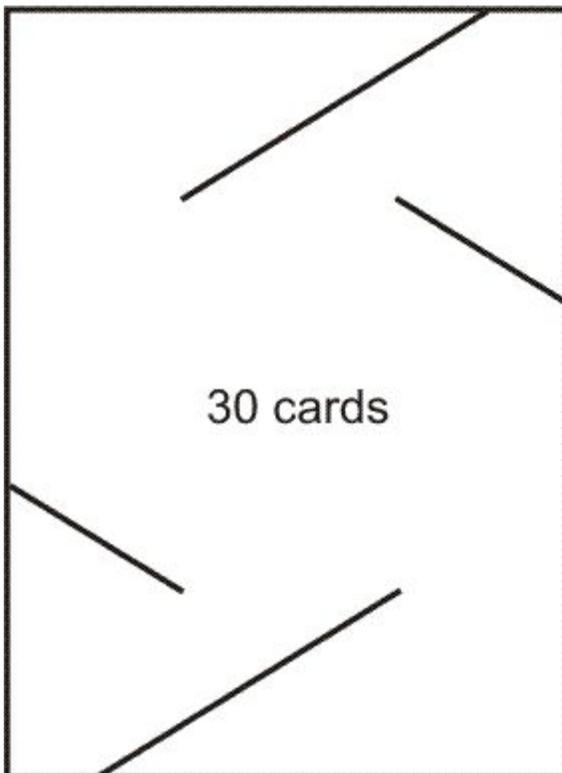
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