

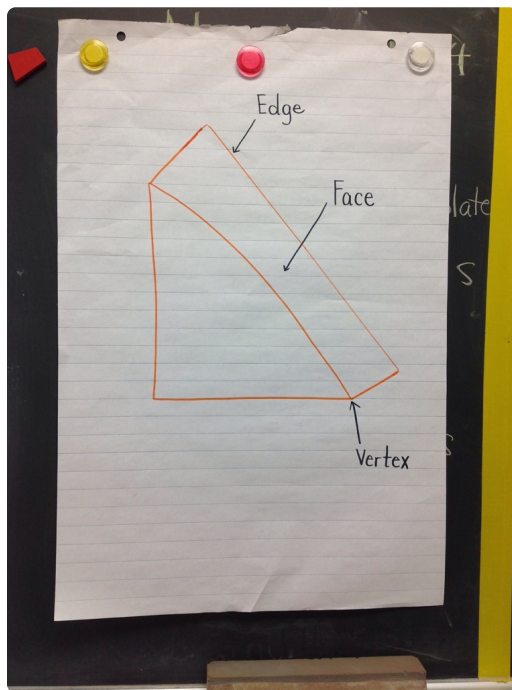
Prisms and pyramids can be described, compared and sorted by their properties

We are learning how to describe, compare and sort prisms and pyramids by using their geometric properties

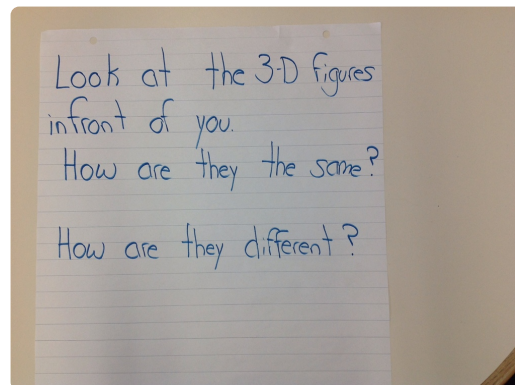
Minds On

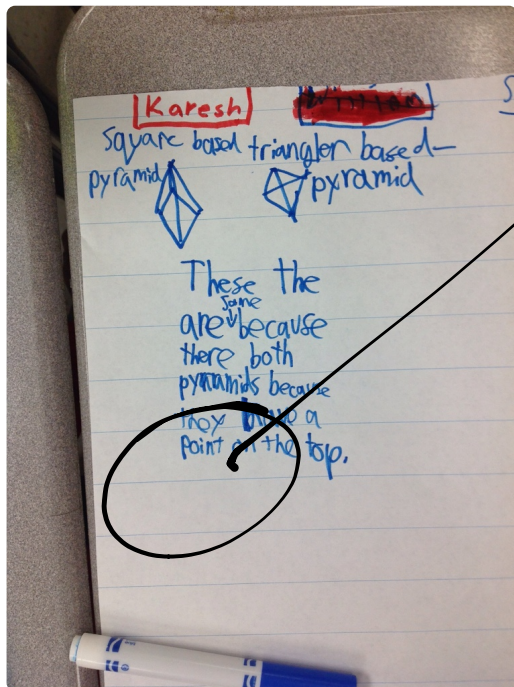
Students were each given one geometric solid and then asked to find a partner who had one that is similar and explain why...one that is different and explain why....

-bring out the vocabulary of face, edge, vertex

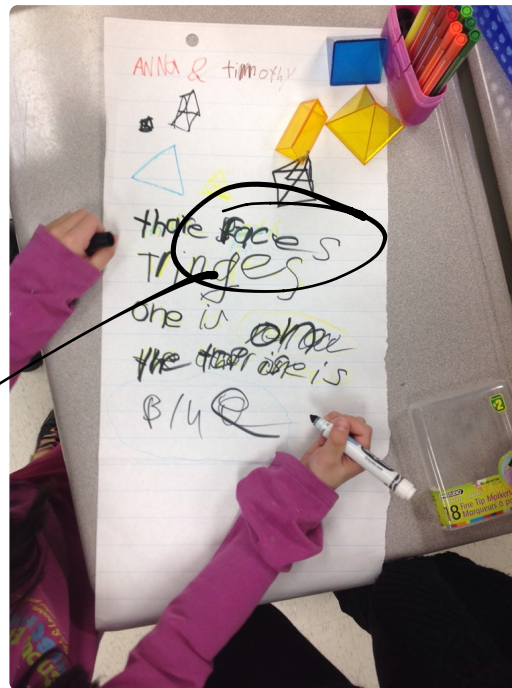


The Problem

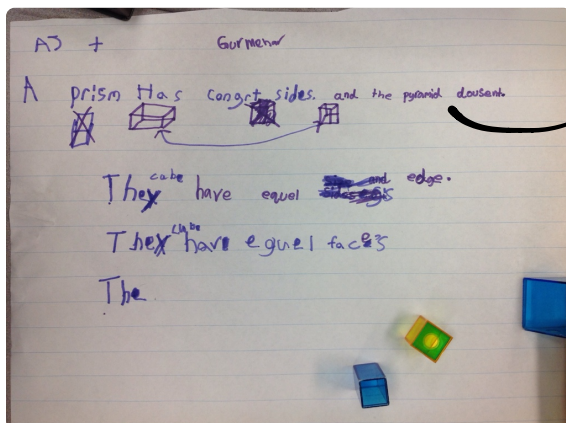




Vertex

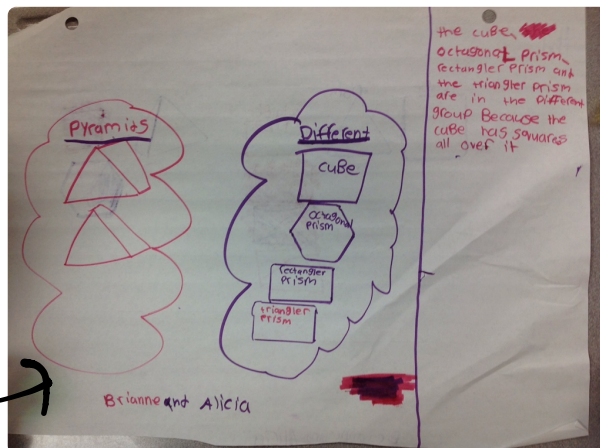


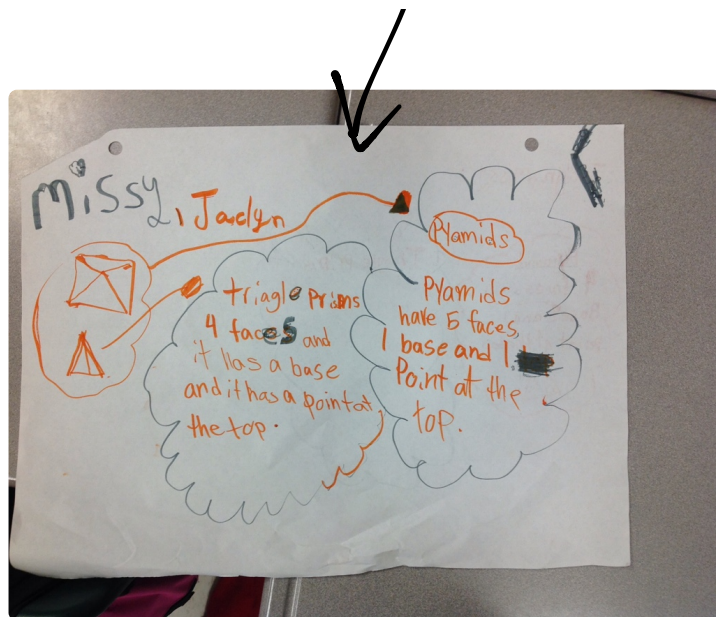
bases



Memorized? Do they have the concept

Beginning structure of a Venn diagram to organize





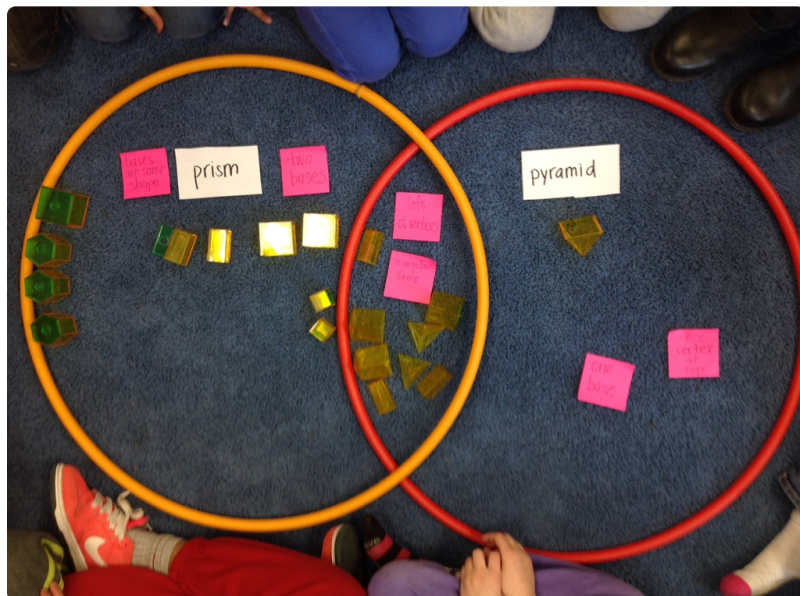
Vocabulary we need to build:

- base vs. bottom or face
- sides vs. edges
- points vs. vertices

Interactive word wall?

Debrief

Ask students who sorted prisms and pyramids into the beginning



structure of a Venn to talk about what they did, and then have students use hoola hoops to learn how to use a Venn diagram to sort, describe and classify the figures

- we used post it notes to write down properties of the figures, for example, prisms have

figure	# of vertices	# of faces	# of edges
triangular-based prism	6	5	9
rectangular-based prism	8	4+4	12
hexagonal-based prism	12	6+6	18
pyramid			

two bases and pyramids have one base

-we wrote down attributes they had in common in the centre, like rectangular faces, and sorted accordingly

-Next, we had a group present that we're beginning to notice similarities in figures' numbers of vertices, edges...

-We showed students how to organize this information into a table and we discussed strategies for keeping track of counting

-one student suggested counting all of the edges

on the bases first and then on the faces...bases before faces !

-another student noticed a pattern when counting the vertices on prisms, that once you count them on one base you just have to double them to figure out the other end...will that work with pyramids?

How do we know the name of a pyramid or a prism?

