

HANDS-ON-ARCHITECTURE

LECTURE AND ASSIGNMENT FOR LESSON 3 – PLANES

There are images that help illustrate this lesson in the Step-By-Step Lesson Photos download; there are examples of student work in the Student Projects download.

Hi Students,

So, we've covered points and lines. Now it is time to think about planes. What are planes? Let's review. A point is a specific place in space (or the intersection of two lines). A line is an extended point that goes forever in opposite directions (or the intersection of two planes). A line segment is what we typically see and use, part of a line stopped by a point at either end.

Did you just ask what a plane is? A plane is an extended line. Now the line that you saw before is stretched to form something like a flat rectangle or a piece of paper. A plane can be very thin or thick depending upon how you are using it. Imagine a flat surface (a plane) going off in all directions cutting through the universe. Pretty amazing, especially when you think about more than one plane going in more than one direction at the same time. We will be using planes cut off by line segments.

What are you going to do this week?

You have two projects that involve planes.

Project 1

You will need: poster board, string, a hole punch, and scissors (or a blade and a ruler)

Step 1: Think about what you want to create.

Step 2: Cut your "planes" (pieces of poster board) to the sizes that you need.

Step 3: Make holes in your poster board with the hole punch in the areas that you want to connect the pieces.

Step 4: Connect the poster board pieces by "sewing" or "tying" them together.

Step 5: Keep going until you've built your creation.

When you do your planes designs, think huge. My example is a relatively small "house," so many additions could be added. Also, not every "plane" has to be the same size.

Also note that you may tie the holes together with a single knot per hole or you may "sew" them. There are a variety of ways to "sew" them, in every other hole like in my examples, or round and round like.

Have fun with it!

And speaking of fun...

Project 2

For this project, you will be designing using “planes” in the form of a deck of cards!

Your goal is to build the largest house of “card” that you can, using one or more decks of cards.

Take pictures often though; it only takes a second for it all to come tumbling down. (Great aside for Mom or Dad to explain building your “house” on a Rock with a good foundation!)

Remember... planes can be vertical like walls or horizontal like ceilings and floors.

Questions? Please email Mrs. G. @ hsarchitecture@icloud.com
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Building Brilliant Minds Online, LLC



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LECTURE AND ASSIGNMENT FOR LESSON 4 – VOLUMES

There are no separate images required to illustrate this lesson in the Step-By-Step Lesson Photos download; there are examples of student work in the Student Projects download. There is also an instructional video at <http://youtu.be/1325BG6N000>.*

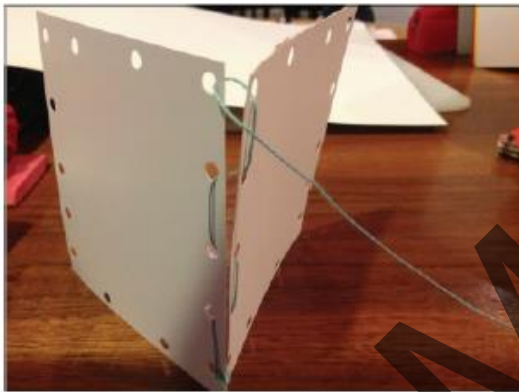
Hi Students,

So we've learned about points, lines and planes. What is next?

Volumes!

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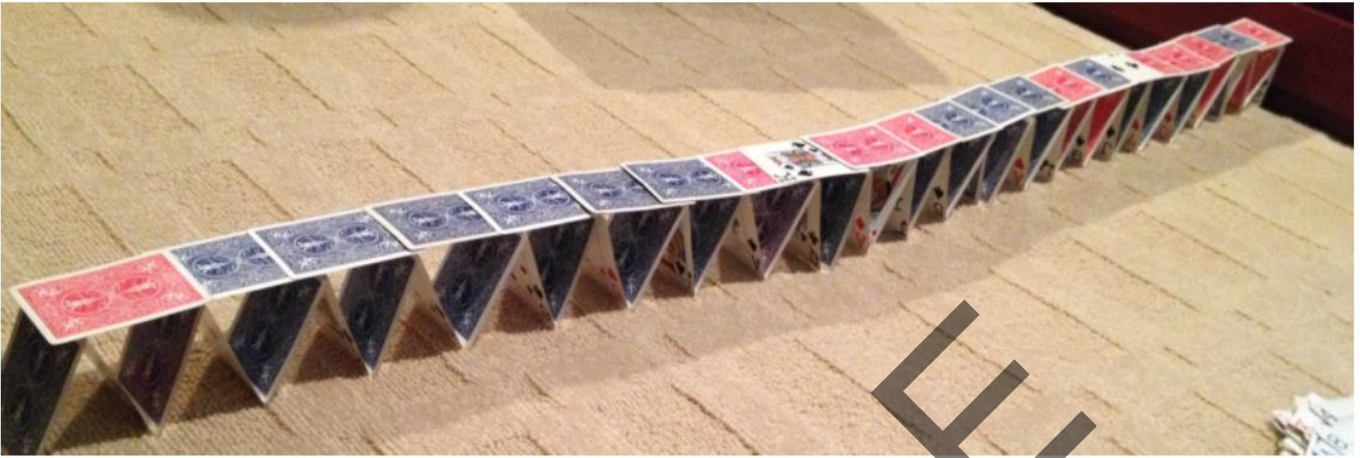
LECTURE AND ASSIGNMENT FOR LESSON 3 – PLANES



Don't give up... try and try again!

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LECTURE AND ASSIGNMENT FOR LESSON 3 – PLANES



By Elijah



By Cal



By Cal



By Madison (10)



By Ebenezer (11)



By Audrey



By Brandon (10)