Active Learning Log

Name_________________

Build a Tower
Describe or draw how you would build the next step (Step 4) in the pattern:

Balancing Art
Alexander Calder was a famous artist who made sculptures by balancing metal, wood, and other objects hanging from wires—he invented the mobile (pronounced moh-beel). Can you balance this mobile? Draw the piece(s) you used on the other side:

Design a Skate Park
What did you change to make it work? Why?
**Light Show DJ**
Find two sets of mirror speeds that produce this Lissajous (pronounced liss-uh-jew) pattern:

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\begin{array}{c:c}
\text{Mirror 1 Speed} & \text{Mirror 2 Speed} \\ \\
\text{Mirror 1 Speed} & \text{Mirror 2 Speed}
\end{array}
\]

Bonus: How are the two sets of speeds alike?

**Whack-a-Phone**
Some people say that you use the same part of your brain for both music and math. Try playing the Whack-a-Phone. How are musical notes related to math?

**Additional Questions**
What are two jobs featured in *Design Zone* that use math?

1. ____________________
2. ____________________

Which exhibit was your favorite? What did you like about it?

Write a trivia question about a *Design Zone* exhibit that will stump your classmates:

*Question:*

*Answer:*