



| Detailed Instructions  | Check Off |
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| 1. Form a Group Name.  |           |
| 2. Imagine a blueprint for the SIDE of your bridge and begin sketching it on graph paper.  |           |
| 3. While you finalize the blueprint, try making all the pieces big enough so when you construct the bridge you can lay the Popsicle sticks on your blueprint to help guide you!  |           |
| 4. Take a picture of your blueprint and put it on your PowerPoint.   |           |
| 5. Build <b>2</b> Truss Beams for both sides of your bridge!<br><br>- <i>Make sure each beam is <b>at least</b> two sticks in thickness.</i>   |           |
| 6. Make “W” shaped cross supports for your bridge.<br><br>- For each side of the “W” pattern use <b>at least</b> two sticks.<br>- The more bracing you have the stronger your bridge will be.  |           |
| 7. Make the deck of your bridge!<br><br>- Make the deck <b>1 popsicle stick wide</b> and it stretches the <b>entire distance of your top length</b> .<br>- Be creative and figure out how to make the deck stronger.<br>- If you do not know what a deck is then please google it. |           |
| 8. <b>Glue cradle supports</b> to the top of your bridge and <b>glue upper support beams</b> .<br><br>- If you do not know what a cradle support is then please google it.   |           |
| 9. <b>Glue the deck</b> on top of the cradle supports.   |           |
| 10. Glue/add cradle supports to the bottom of the bridge and add any pattern designs on the bottom if you wish<br><br>- If this is not done today, that is okay. You can finish it up on the 22 <sup>nd</sup>  |           |
| 11. Finish the final cradle supports on the bottom if it hasn't been finished.   |           |
| 12. Create 5 popsicle stick tall square platform for your bridge to rest on!<br><br>- Make a platform for both sides of your bridge!   |           |