

Lesson Plan Form

Day and Date: Wednesday Aug. 28



Staff Member(s) Leading Activity Debbie

Think About It:	
Activity Title/Description:	<u>Spider Web Tensile Strength Experiment</u>
Skills children will accomplish: Teamwork Fine oral motor skills Spatial awareness and directionality	<u>Curiosity</u> <u>teamwork</u> <u>scientific experimentation</u>
Which S.T.E.A.M. skills can be applied?	<u>Science, engineering</u>
Child's Role in the Activity (e.g., Leadership, <u>Participant</u>)	
Is additional staff needed? If so, describe.	<u>no</u>
Space Needed:	<u>table</u>
Activity will work in multiple spaces?	<u>no</u>
Materials Needed? I will supply all materials needed except for food coloring and cups.	<u>looms</u> <u>yarn</u> <u>string</u> <u>fishing line</u> <u>elastic</u>
Activity Introduction/ Sell It:	
Activity Directions: 1. First the children will mix their own bubble solution in a small cup. 2. They will each get food coloring of their choice dropped into the bubble cup. 3. The children will use the straw to blow bubbles in their cup. 4. Once bubbles are formed, the children will lay the fresh paper on the	<u>We will discuss Spider Webs & what tensile strength means. Children will then break up into groups. Each group will get a loom & one type of material to make a web from. They will create the web by winding their material through the pegs of the loom. Once done, they will test the tensile</u>

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top of their bubbles creating a print on the paper. They can move from one cup to another in order to get rainbow colors on each sheet.	strength of the web by placing various objects on it.
Wrap up- Discuss activity highlights, benefits, successes, take aways	
Activity Duration: 20 minutes	45 mins
What pitfalls might you expect? How would you remedy them?	Frustration with webs failing explain that science involves things not working & discussing ways to improve their design.
Evaluate the activity – What went well? What modifications would you make next time?	