

Material List

4x Die Cut Snowflakes or [Paper Craft Snowflakes](#).

1x Twig or Branch Measuring 10+ Inches in Length.

2x Lengths of Yarn at 9 Inches.

2x Lengths of Yarn at 18 Inches.

1x Length of Yarn at 22 Inches.



Make a S.T.E.A.M. Powered Snowflake Mobile!

S is for Science! **Find a good twig base:** be a Citizen Scientist! Take a nature walk in the woods, your backyard, or around town. As you walk and search, take note of things that attract your senses, and write them down in a notebook or on a piece of paper. What did you see, hear, feel, and smell on your walk? (Maybe even taste? A snowflake on your tongue?)

T is for Technology! **Find the fulcrum of your twig:** have your child stick out their finger. Experiment with exactly where to put the twig so it balances on their finger. That's where you add your first, longest piece of yarn to hang the twig. (See photos on back, courtesy of Joah!) Now use some painter's tape to hang the yarn and the twig from a table top.

E is for Engineering! **Add your snowflakes:** loop a piece of yarn through each snowflake and tie it at the upper end of the loop. (Each snowflake should be hanging from a closed loop.) One by one, add the snowflakes to the twig base starting towards the center, or fulcrum. As you add them, notice how the twig tips and balances. Keep adding snowflakes, one at a time to each side of your fulcrum, and gently shift and move them until they create a balance between each side so none fall off.

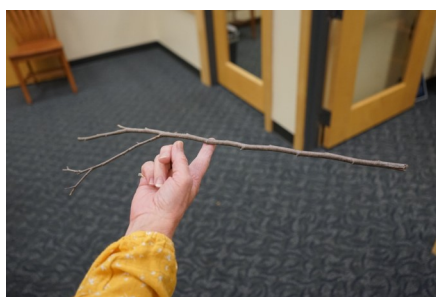
A is for ART! **Hang your mobile where you can enjoy it:** appreciate the beauty of the structure :) Does it stir in a breeze? How does it make you feel? Does it make you want to go outside and build a snowman?!

M is for Math! **Count the different parts of the mobile:** how many strings? How many snowflakes? How many parts in all?

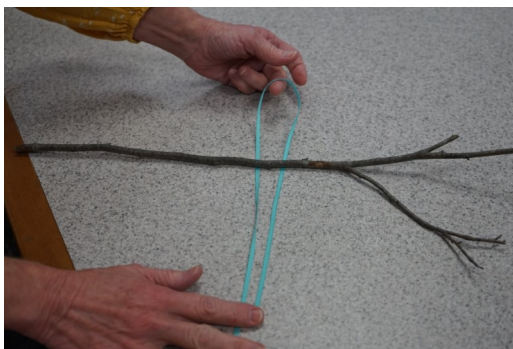
With just a quick trip around the outside of the library I found many twig possibilities!



Here's how I found the fulcrum and added the yarn hanger:



Notice how it's not at the very center :) Now add your hanger:



Make a loop at one end, then pull the bottom through it. Knot the loose ends at the top.



Here's how I hung the mobiles while I worked on adding the snowflakes:

