

Building a Spaghetti Tower

Ideating

- Generate potential ideas and add to others' ideas
- Screen ideas against criteria and constraints
- Choose an idea to pursue

<https://curriculum.gov.bc.ca/curriculum/adst/6/core>

I will be grading questions 2 and 3 in Spaces.

Your group will be given:

- Two arm lengths of masking tape. (Choose the team member with the longest arms)
- One arm length of string
- 20 pieces of spaghetti
- One marshmallow

BY YOURSELF:

1. Think:

How can I build the tallest spaghetti tower that holds a marshmallow on top without falling?

What shapes are the strongest? How will you use the tape and string?

2. **Plan:**

Choose your best idea and draw it out. Think about how the base will support the rest of the structure.

Draw and label your plan. Take a photo of your plan and upload it to Spaces:

IN GROUPS OF 2 TO 3 STUDENTS

3. Discuss your group's plan.

Draw and label your new plan. **Take a photo of your new plan AND your response to the question and upload it to Spaces**



How has your plan changed after your group discussion? Why? If it did not change, why was your plan chosen by your group? (2-5 sentences)

4. Create:

Build your tower using only the materials provided.

5. Test:

Place the marshmallow on top. Does the tower stay standing?

6. Improve:

What worked well? What would you change next time to make your tower stronger or taller?
