

Assessing Process: Automatic Measures of Collaborative Discourse

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Automatic Transcription

Speaker 2: Although if we did start at G it wouldn't be that long

Speaker 2: Would it be better to like **trust you** and like this

Speaker 2: Like that

Speaker 2: So then we're using less road and we just have to go bang bang **itself back in there**

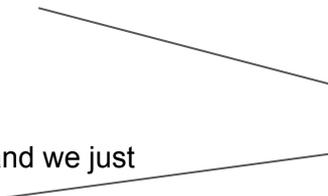
Speaker 3: But isn't the

Speaker 1: I was thinking of adding a line here

Speaker 2: That's using more road

Speaker 2: And that unnecessary

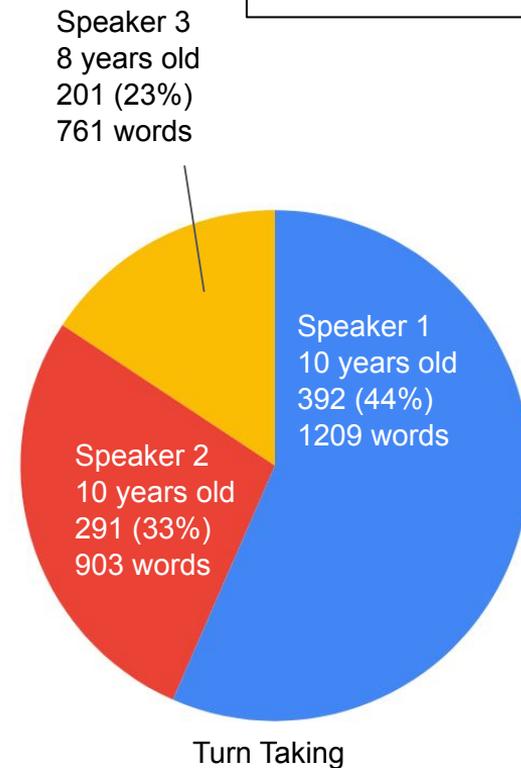
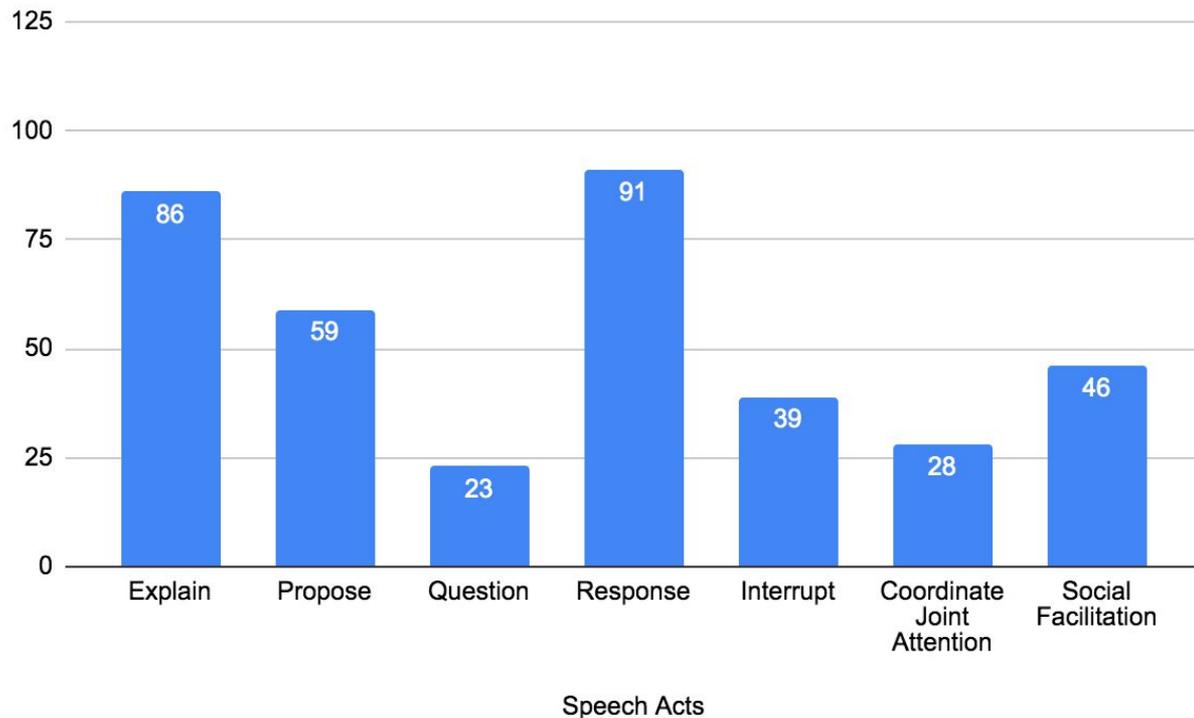
Speaker 1: Yeah. Does the diagonal just



Transcription errors occur about twice per minute.

Data Display of Group 1 Across All Tasks

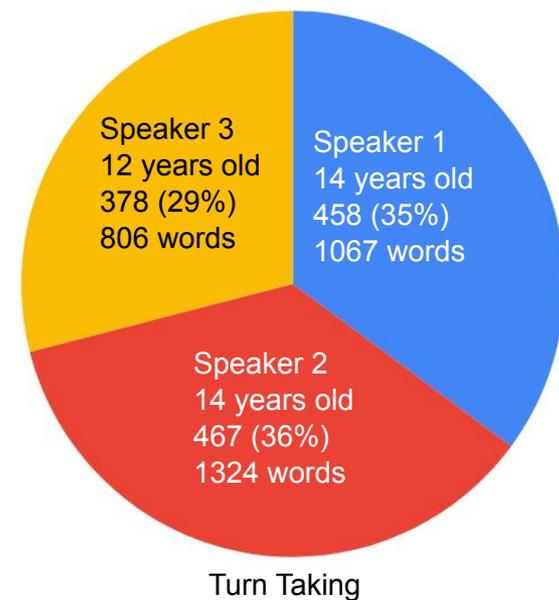
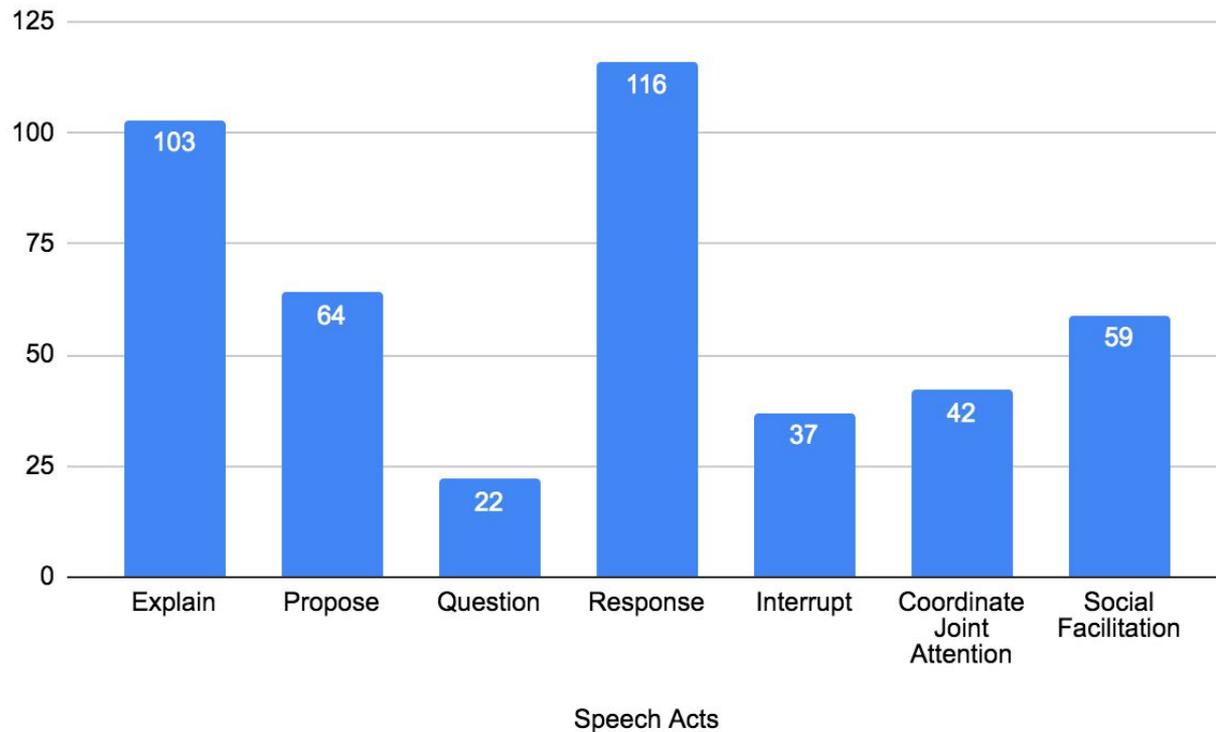
Group 1:
• 3 females
• ages 10, 10, 8



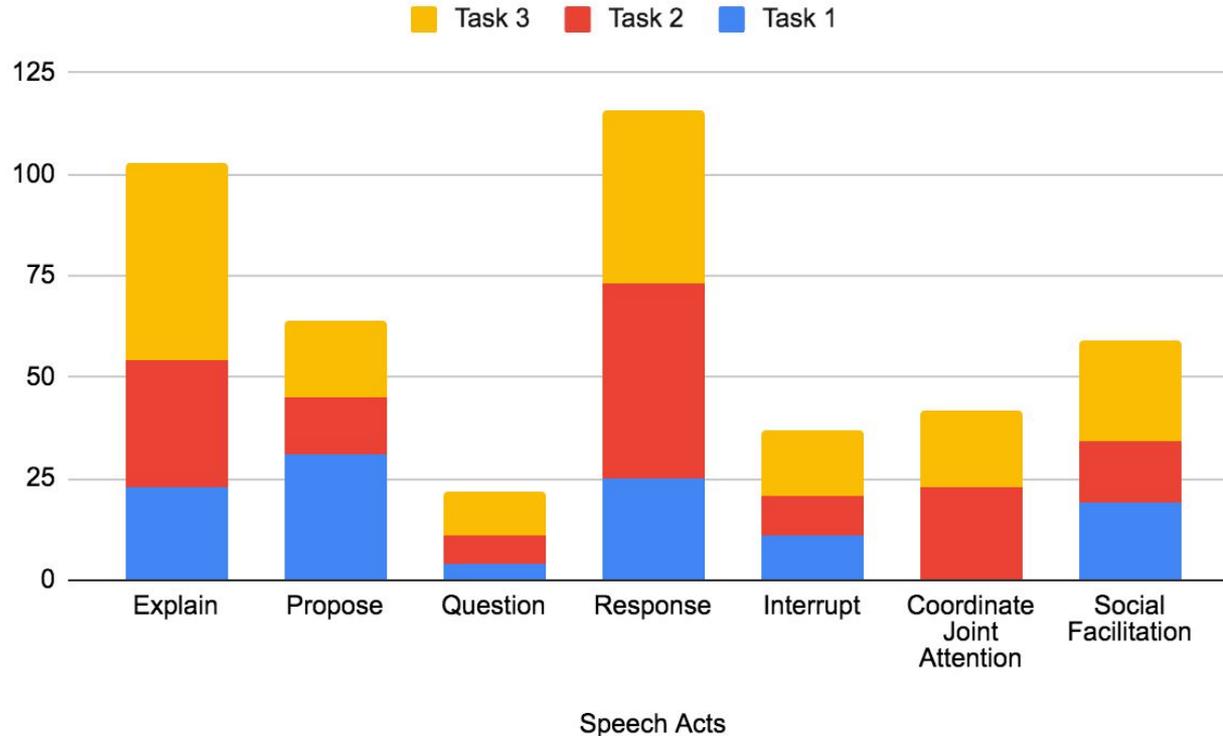
Data Display of Group 2 Across All Tasks

Group 2:

- 3 females
- ages 14, 14, 12



Data Display of Group 2 during each Task

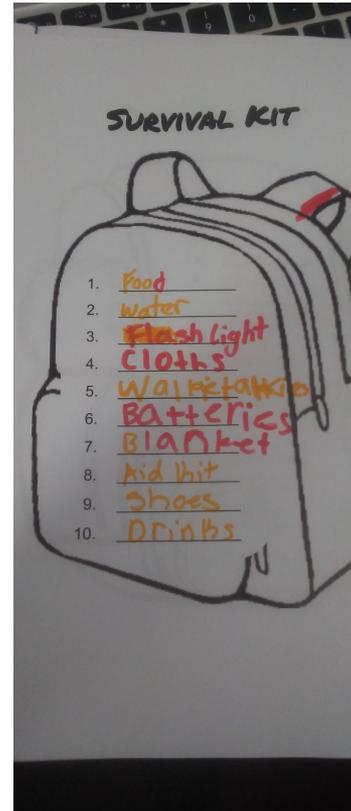
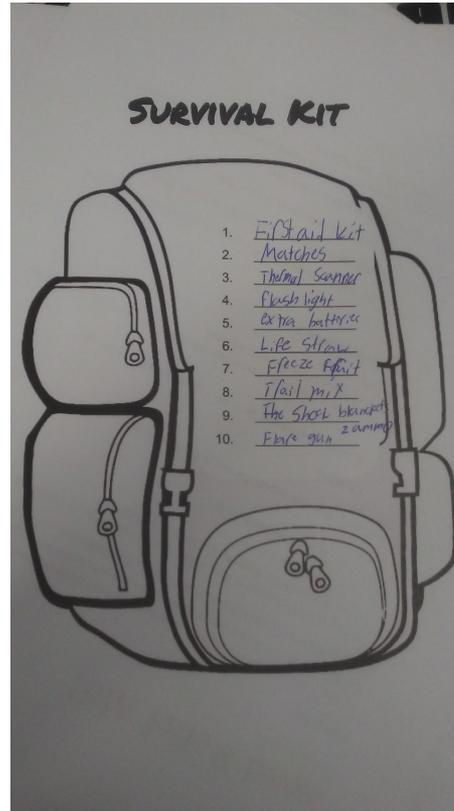
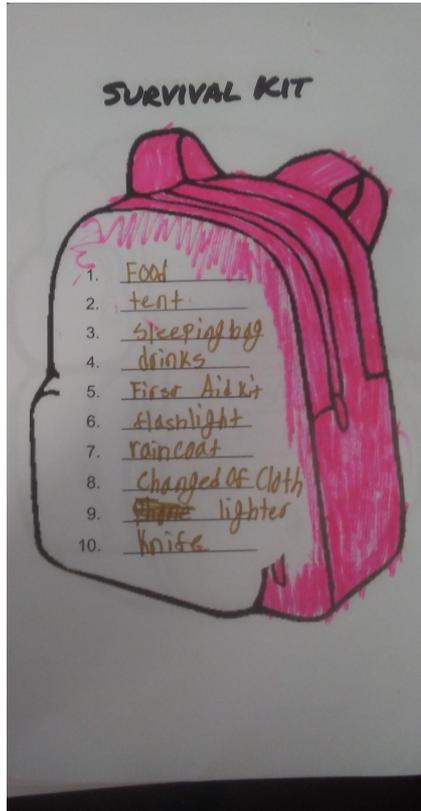


Task 1: collaboratively **make a list** of 10 items to put in a survival kit

Task 2: collaboratively **design a road network** and a route for a truck to travel along that road to deliver relief aid to different villages on a map

Task 3: collaboratively **build a spanning bridge** using only toothpicks and gummies that spans a 8 ½ gap between two tables

Task 1: Pack a Survival Kit



Directions:

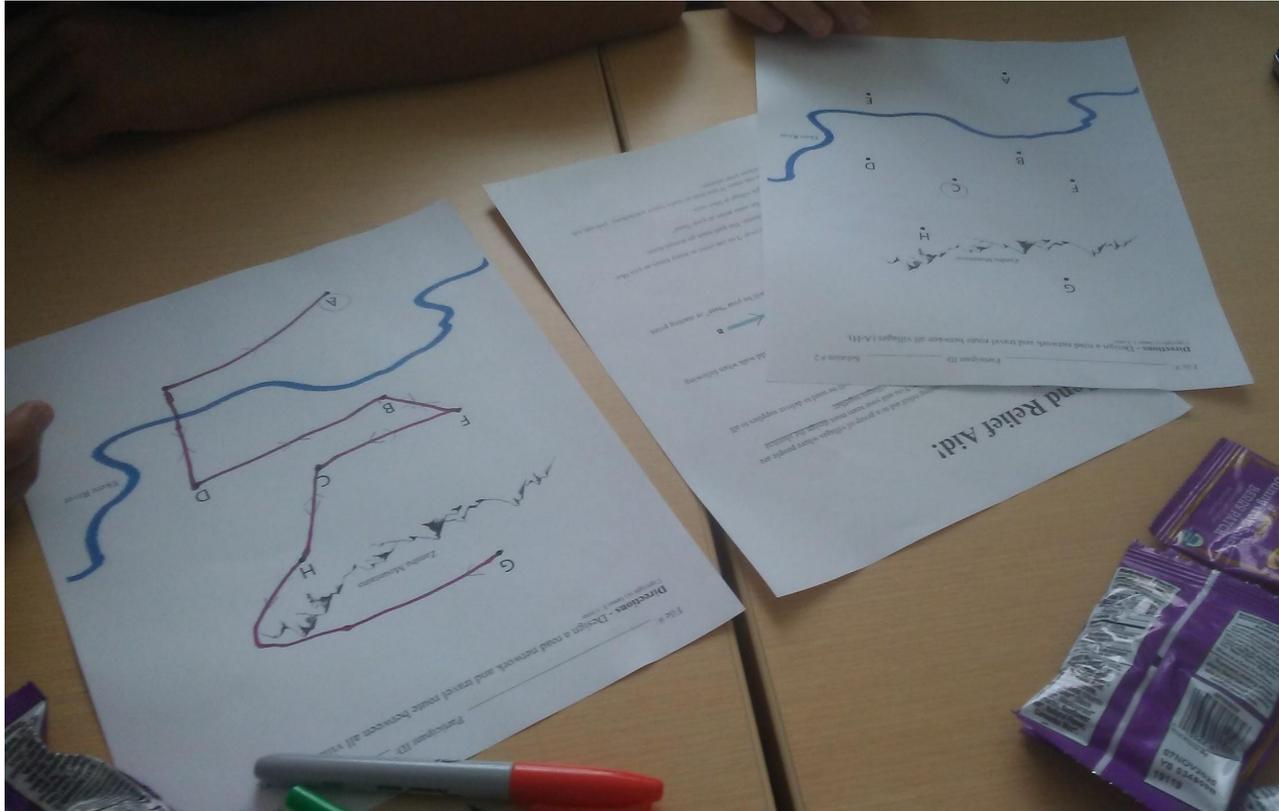
You and your team are in charge of designing a survival kit that people can use to survive a natural disaster.

You and your team must create a list of 10 things to put in a backpack that anyone can pick-up, carry, and use to survive.

Rules:

- You can only pack 10 things.
- All items must be able to fit inside a backpack.
- A person of your age and strength must be able to carry the backpack once its packed.

Task 2: Relief Aid Delivery Route



Directions:

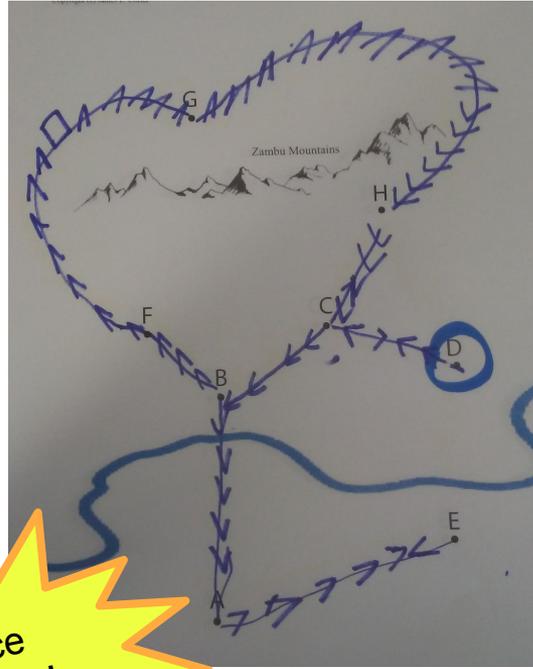
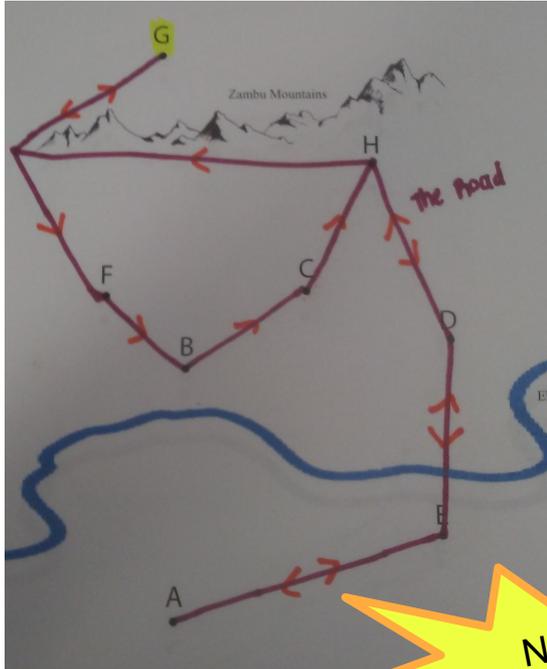
You and your team are in charge of sending relief aid to a group of villages where people are struggling to recover from a natural disaster.

You and your team must design the shortest possible network of paths that can connect all the villages together.

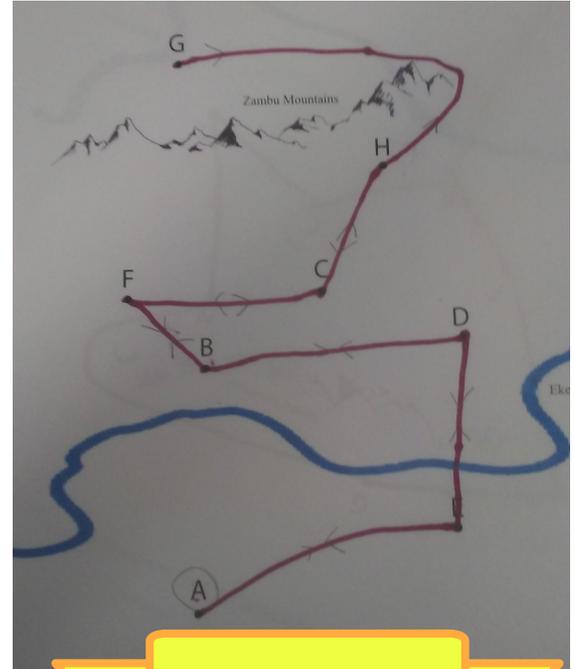
Rules:

- You can only build one bridge over the river.
- You can not travel through the mountains.
- The path must start and finish at the same point, at your “base”.
- The path must visit every single village at least once.

Task 2: Design a Relief Aid Delivery Route



Nice Design!



Honorable Mention

Task 3: Build a Spanning Bridge



Directions:

You and your team are in charge of building a bridge across a deep gap in the mountains that will allow you to connect a road to two villages stranded on the other side of the mountains.

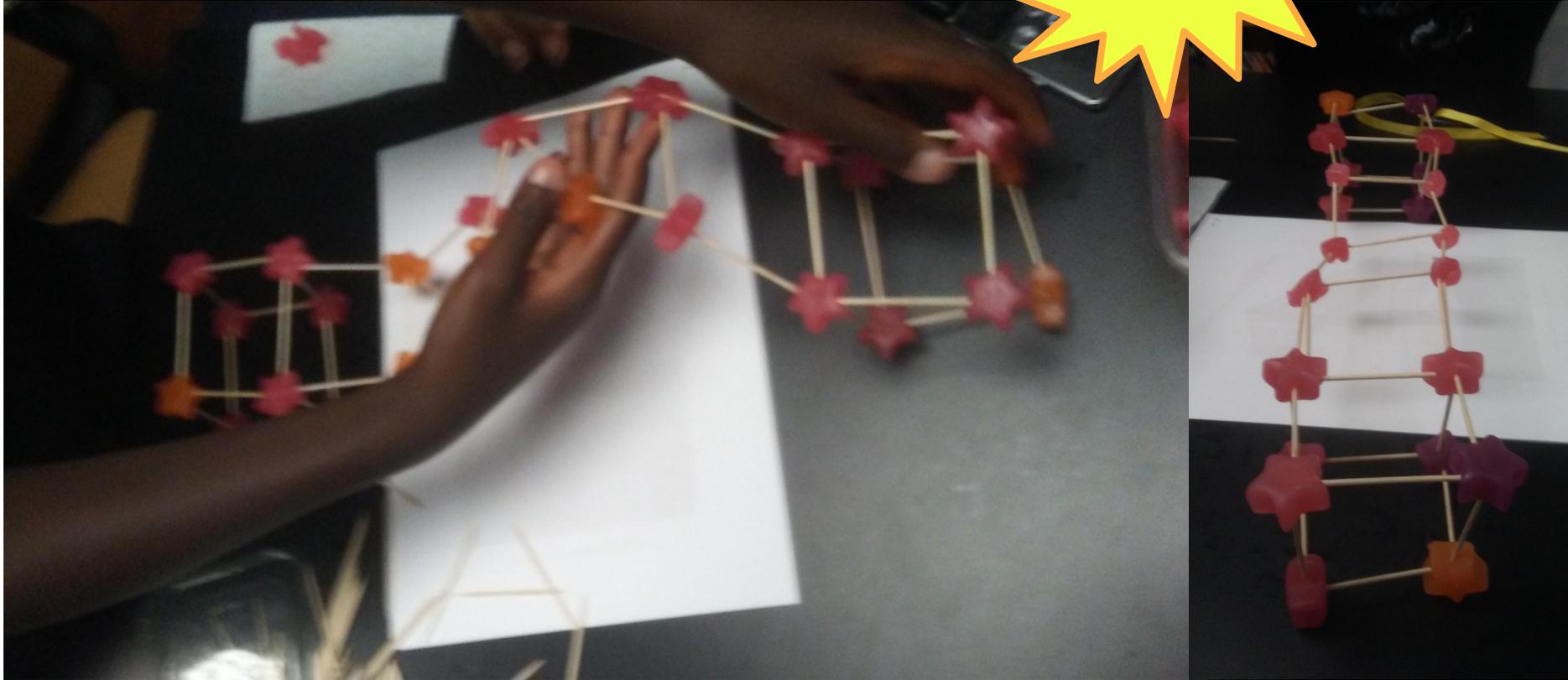
You and your team must design a model spanning bridge that can cross 8 ½ inches of open space without falling.

Rules:

- The bridge must cross an 8 ½ inch gap
- You can only use toothpicks and gumgies
- Support can only be provided from the tables.

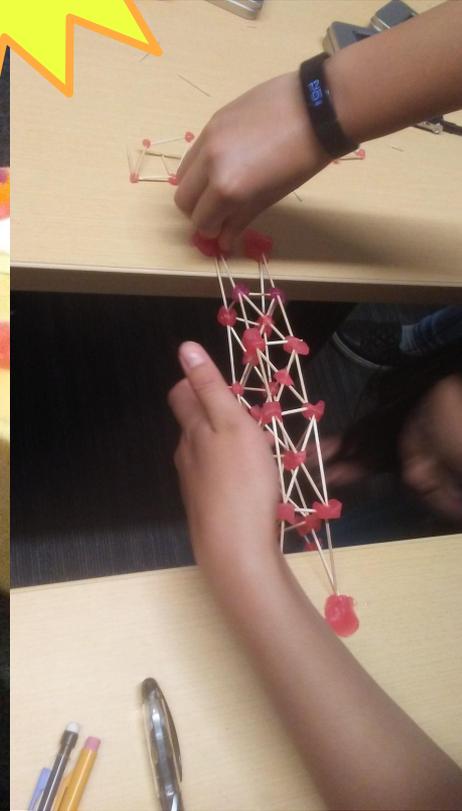
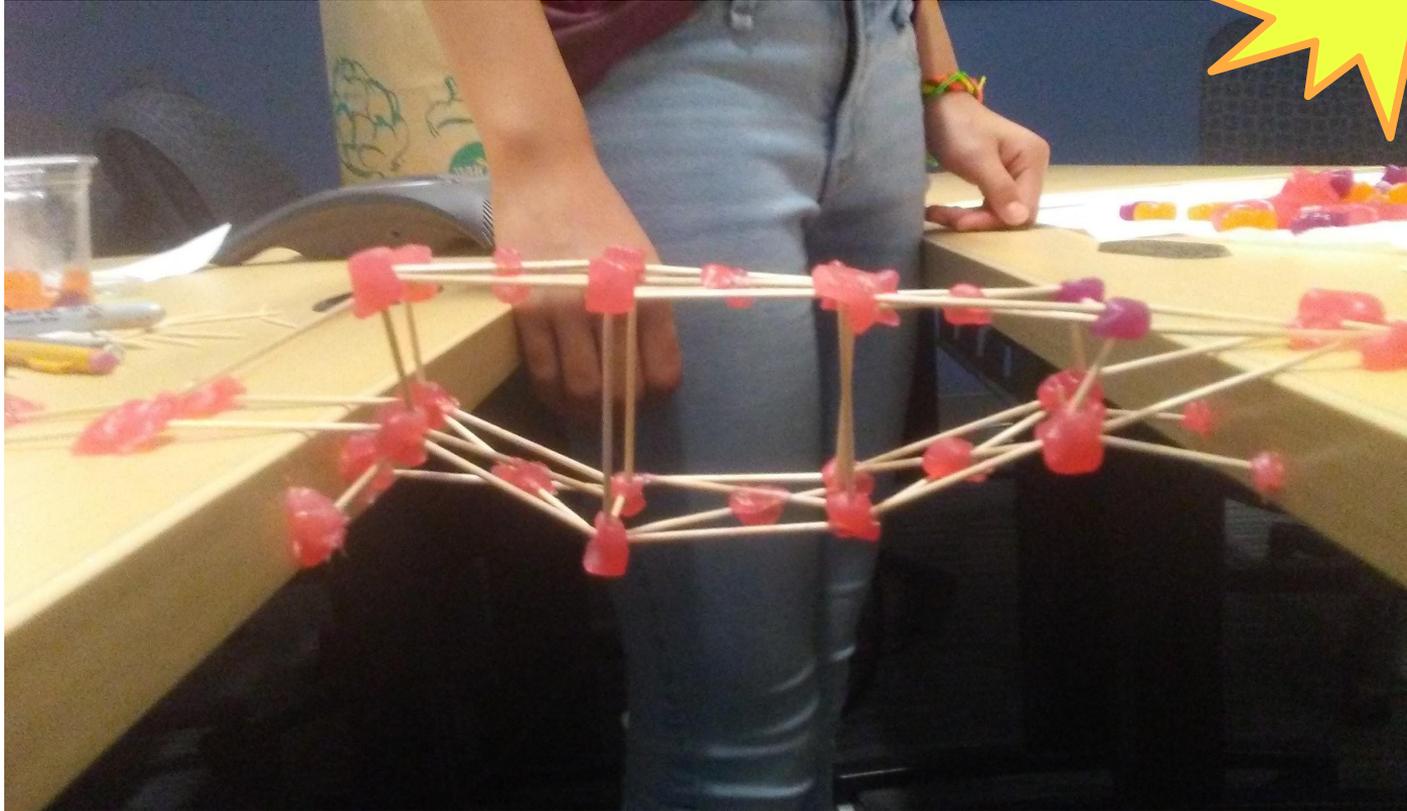
Task 3: Build a Spanning Bridge

Success!



Task 3: Build a Spanning Bridge

Success!



Task 3: Build a Spanning Bridge

Honorable
Mention

