



Materials

- Paper for use in the structure
- Drawing paper
- Tape
- Scissors
- Charcoal Pencils

Preparation

- Provide enough materials for each team.
- Tape-off squares on the floor for each team

Eating & Settling-In (15 min)

Focus (5 min)

Introduce the lesson by explaining that each team will be constructing a structure made of paper & tape and which will be contained to a pre-determined area.

Mini-Lesson/Modeling (20 min)

- Provide instructions: students use the materials to design & build a structure of their choosing.
- The paper for the structure must be rolled (demonstrate).
- The structure's base must be contained within the taped-off area.

Small Group/Independent Work Time (40 min)

- Students are divided into teams.
- Team work spaces should be out of view from each other.
- Students are given free-reign to design a structure of their choice with the following stipulations:
 - The structure must be constructed of rolled paper and tape.
 - Any part of the structure which touches the floor must be contained within the taped-off square.
 - Students begin working on their projects for a pre-determined amount of time.
 - In the middle of the building time, students send one representative to study the





Small Group/Independent Work Time (con't)

- other team's structure for one minute.
- The representative reports back to his/her team about what the other team is doing.
- After time is called, students are allowed to view the other team's structure.
- Students discuss and reflect as a group.
- Students are provided with drawing paper and charcoal pencils.
- Each student is asked to draw one part of the other team's structure (a part which is interesting, a favorite part, etc.).
- Students share & discuss their drawings.

Presentation (15 min)

- Each team should present their structure to the whole group. The team should speak to what their vision was, what each person contributed to the final result, what was successful, and what they learned.
- Each student discusses his/her drawing and reflects on others' drawings.

Reflection/Closing (10 min)

Discuss what worked and what didn't work with both the structure building and drawings. Ask: What was successful? What could have been done differently? What would you do next time? What did you learn?



Looking to Next Week (5 min)

Save the drawing for use in a lesson on scale and programming (right, bottom picture).



Clean-Up (10 min)