

Rubric for Explore: Build Conceptual Models of Bus Shelters

Objectives	Low 1 point column	Low-Mid 3 point column	High- Mid 5 point column	High 7 point column	Total Earned Points
Communication and Collaboration	Student did not contribute to discussion on shelter needs in community. Student did not collaborate well with other students in creating slot card structures.	Student contributed few ideas to discussion on shelter needs in community. Student became frustrated in building slot card structures with team and did not attempt to resolve differences of opinion.	Student contributed good ideas to discussion on shelter needs. For the most part, student worked well with others in creating slot card structures and worked well in writing collaborative statement.	Student contributed innovative insights to discussion and encouraged others in discussion. Student worked very well with others in creating slot card structures and in writing collaborative statements.	
Critical Thinking, Solve Problems and Make Decisions on Structures	Student did not explain the needs the bus shelter would address. Student did not attempt to problem solve issues that came up in process.	Student briefly addressed how people would interact with bus shelter structure. Student minimally explained the uses of the bus shelter in their written statement. Student did not attempt to problem solve issues that came up in process.	Student's collaborative construction addressed the group's identified community or environmental needs. Student attempted, with some success, to problem solve issues that came up in process.	Student's collaborative construction addressed the group's identified community or environmental needs. Student effectively problem solved issues that came up in process.	
Model Assembly and card construction	Student did not complete project or the project was late.	Student followed some of the directions. Student did not cut out connector cards correctly. Cards not cut correctly or assembled into a coherent structure.	Student cut out connector cards correctly and cut slots in the correct places. Student followed the directions and created a coherent model structure.	Student cut out connector cards and cut slots in the correct places. Model structure was well constructed and designed. Student was innovative in use of additional materials.	
Pattern designs on cards	Student did not add	The cards were wrinkled or messy.	The card pattern designs	Student took pride in their	

(optional)	patterns to the cards and lost cards.	The colors were unclear or coloring was uneven. Patterns were not carefully designed.	were creative and reflective of community. Carefully thoughtfully drawn and colored.	work. The final product was neat, colorful and carefully designed. Patterns reflected community.	
Construction and Balance	Student did not work on collaborative slot building structure.	Student worked on collaborative structure which was mostly balanced and stable as construction.	Student worked on collaborative structure, which was balanced and artfully designed.	Student worked on collaborative structure, which was well balanced, innovative and stable.	

Student Name: _____ Date: _____ Total Points