

Design Your Own Playground!

Culminating Activity: Grade 1

Materials, Objects & Everyday Structures



Grade 1 Science – Materials, Objects & Everyday Structures

Playground Design Rubric

Name: _____



	Level 1	Level 2	Level 3	Level 4
Structures included in model.	1 different structure.	2 different structures.	3 different structures.	4 or more different structures.
swings sandbox climber teeter-totter tube bench monkey bars other: _____ other: _____				
Structure stability.	Few structures are stable.	Some structures are stable.	Most structures are stable.	All structures are stable.
Use of Materials	Student used a few different materials.	Student used some different materials.	Student used several different materials.	Student used a variety of different materials.
wooden dowels large popsicle sticks small popsicle sticks matchsticks yarn foam paper felt other: _____ other: _____ other: _____				
Problem solving skills <i>What challenges did you face? How did you solve?</i>	Student solved problems when building with limited effectiveness.	Student solved problems when building with some effectiveness.	Student solved problems when building with considerable effectiveness.	Student solved problems when building with a high degree of effectiveness.
Oral Communication	Communicates with limited effectiveness.	Communicates with some effectiveness.	Communicates with considerable effectiveness.	Communicates with a high degree of effectiveness.
Visual Appeal	Project completed with limited effectiveness.	Project completed with some effectiveness.	Project completed with considerable effectiveness.	Project completed with a high degree of effectiveness.

Comments

Materials I used:

-pizza boxes (cut to make the base of the playground) ...your local pizzeria may generously give you some OR sell you some for cheap 😊 1 side of the box was used for each...1 pizza box will make 2 playground bases.

-I went to the dollar store and loaded up on a variety of craft items: matchsticks, toothpicks, thick and thin popsicle sticks, long popsicle sticks, pipe cleaners, yarn, foam, felt, foil...students will get creative with whatever is put in front of them!!!

-I also brought in large wooden dowels that I pre-cut that students could use for their climbers.

***we used masking tape and LOTS of hot glue (low-temp)...get permission from parents to have students use the glue guns...otherwise, get some volunteers to come in.

Before you start:

-we looked at several pictures of playgrounds to get ideas.

-we brainstormed a list of structures that would be found in a playground. Here are a few of the structures we came up with:

climber	monkey bars	tube	teeter totter
swings	bench	sandbox	ladder

Before they build:

-we discussed success criteria for the projects. We decided that every playground MUST include a climber.

-playground needed to include at least 4 structures.

-structures must be stable.

-students were required to use at least 5 different materials in their project.

-each student was given a square piece of construction paper. They were to map out a design of their playground with labels. The drawing did not have to be fancy!

The finished projects:

-students then presented their projects to the class. During the presentation, students could talk about some of the challenges they faced and how those challenges were met. They could also communicate if any changes were made from their original plan & why.













