

# Playground Project Component 1

Excellent news.... !!! Recently School District 73's board of directors announced that they received a small surplus of extra revenue from the Ministry of Education that must be used on the building of a physical entertainment space for students at any local school to use for their enjoyment. You have been chosen to create a project from scratch which Mr. Schmidt will be submitting on the school's behalf in order to secure funding for the construction of a new playground at Brock Middle School. The funding available, and the amount of money which will be granted for this project, will be based on guidelines set out in the following criteria sections below. In order to submit the project, all three sections / components of the criteria sections must be completed. If any of the sections / components are not completed, then no mark will be given and the submission will not be forwarded until such time as the submission requirements are completed.

## GROUPS:

You can create a group that consists of up to a maximum of three students that will work together and submit the completed project for consideration.

## PROJECT:

Your group will be creating a possible design / project for a playground that can be built on one of the playgrounds of the school which incorporates certain geometric shapes in order to bring a Mathematical appreciation to the submitted / completed project.

## CRITERIA:

There are three components / sections to the project and all sections must be done in order to have the project considered complete and ready for submission. Within each of these components / sections there is also different levels of design which will be used to determine the overall final mark that the project can receive, as well as the funding amount that the project would be available for.

- 1) " C " level projects consist of four objects used
- 2) " B " level projects consist of six objects used with some combinations
- 3) " A " level projects consist of eight objects ( one investigated on own ) used in combinations

### **Component 1:** ( Design / Build )

This component consists of two parts :

Part 1 ( there must be drawings of the project / model that includes the following types of views )

- must have a front, side, and top view of the model which shows 2-Dimensional perspective and the drawings must be to scale
- must have at least one 3-Dimensional view of the model which is to scale

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Part 2 ( there must be a physical creation / model of the playground that includes the following )

- model must be constructed ( hand made ) with no more then 25% of the whole model being made of previously manufactured materials
- the model must be attached to a ridged base and not be larger in size that exceeds 2500 cm squared ( 50 cm X 50 cm )
- model must physically be accurate ( coloured, orientation, scaled, ... ) to what the full sized built playground would look like

**( RUBRIC ON BACK SIDE )**

CATEGORY	UNSATISFACTORY ( needs development ) ( 0 - 11 )	EMERGING ( novice ) ( 12 - 14 )	PROFICIENT ( competent ) ( 15 - 17 )	ADVANCED ( expert ) ( 18 - 20 )
Design / Layout ( Drawing )	-the views / construction of drawings were never completed  --lacks many design elements or interest and minimal additional features  -not much attempt to show individuality	-the views / construction of drawings shows student applied the principles and / or elements in a basic way  -lacks individuality, few details, not appropriate form expressed	-the views / construction of drawings shows student applied the principles and / or elements adequately  -expressive, has some unique features, and correct form expressed  -attempt to show individuality	-the views / construction of drawings shows student applied the principles and / or elements in a creative and unique way  -is unique, displays elements that are totally their own, and evidence of detail or unique applications
Skills and Craftsmanship ( Drawing )	-student showed poor craftsmanship or lack of understanding	-student showed average craftsmanship and understanding	-student showed above average craftsmanship and understanding	-student showed outstanding craftsmanship, understanding and demonstrates great deal of patience and pride
Work Habits / Group Attitude	-leaves clean up to others -is not open to assistance or suggestions	-lacks openness of suggestions for improvement -has difficulty being on task and cleaning up	-respectful and accepts suggestions -cleans work area most of time	-respectful and open to positive suggestions -cleans work area thoroughly
Total				

CATEGORY	UNSATISFACTORY ( needs development ) ( 0 - 11 )	EMERGING ( novice ) ( 12 - 14 )	PROFICIENT ( competent ) ( 15 - 17 )	ADVANCED ( expert ) ( 18 - 20 )
Design / Layout ( Model )	-model not very interesting to look at  -model lacks design elements of interest  -model has minimal additional features and lacks individuality	-model includes minimal details to make it interesting to look at  -has few design details  -some additional features and evidence of individuality is displayed	-model includes details that make it interesting to look at  -design details are evident and some unique features present  -expressed individual features are obvious	-model includes advanced details that really make it interesting to look at  -design details are unique and displays elements that are totally creative in nature  -detailed /advanced features are present
Skills and Craftsmanship ( Model )	-poor craftsmanship or lack of understanding of concepts  -model demonstrates lack of planning and is incomplete	-average craftsmanship and understanding of concepts  -model shows applied planning for completion and model is complete	-above average craftsmanship and understanding of concepts  -completed model shows attention to details and interesting use of concepts demonstrated	-outstanding craftsmanship and great deal of patience and pride evident in completed model  -unique details and abstract combination or use of concept are applied in model
Work Habits / Group Attitude	-leaves clean up to others -is not open to assistance or suggestions	-lacks openness of suggestions for improvement -has difficulty being on task and cleaning up	-respectful and accepts suggestions -cleans work area most of time	-respectful and open to positive suggestions -cleans work area thoroughly
Total				