Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Extreme Playground Makeover

Congratulations! Your school has been chosen to receive an extreme playground makeover. The designers are now accepting plans for the makeover. Your plan must meet these requirements:

* Must have at least ten (10) of the following incorporated into the design in some way. ***CHALLENGE***: Use one of each in your design.
	+ LINES
		- Set of parallel lines
		- Set of perpendicular lines
	+ ANGLES
		- Right angle
		- Obtuse angle
		- Acute angle
	+ QUADRILATERALS
		- Rectangle
		- Square
		- Trapezoid
		- Parallelogram
	+ TRIANGLES
		- Acute triangle
		- Right triangle
		- Obtuse triangle
		- Scalene triangle
		- Equilateral triangle
		- . Isosceles triangle
	+ POLYGONS
		- Pentagon
		- Hexagon
		- Octagon
	+ A symmetrical image
* Your design must be labeled
* Write a persuasive letter convincing the committee to choose your design. Use three reasons why and support using details and examples. Your letter must be written in letter format.

|  |  |  |
| --- | --- | --- |
| **Geometrical Concept** | **Definition** | **Image** |
| ***Parallel******Lines*** |  |  |
| ***Perpendicular Lines*** |  |  |
| ***Right******Angle*** |  |  |
| ***Obtuse******Angle*** |  |  |
| ***Acute******Angle*** |  |  |
| ***Rectangle*** |  |  |
| ***Square*** |  |  |
| ***Trapezoid*** |  |  |
| ***Parallelogram*** |  |  |
| ***Acute******Triangle*** |  |  |
| ***Right******Triangle*** |  |  |
| ***Obtuse******Triangle*** |  |  |
| ***Scalene******Triangle*** |  |  |
| ***Equilateral******Triangle*** |  |  |
| ***Isosceles******Triangle*** |  |  |
| ***Pentagon*** |  |  |
| ***Hexagon*** |  |  |
| ***Octagon*** |  |  |
| ***Symmetry*** |  |  |