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*** |  |  |