

*Name of Design Challenge Here*

Engineering Design Challenge

Design Brief

*Place a Simple Graphic to Represent  
EDC Here*

**PROBLEM:** *Explain the problem and give a brief background to explain why you are doing this challenge. For example... You have been studying the water cycle and weather this month. You have learned about different types of weather instruments and ways in which meteorologist predict the weather. Our media specialist, Mrs. Smith, would like to announce the wind speed and direction on the news each morning, so teachers will be prepared at recess time.*

**CHALLENGE:** *Briefly explain the challenge. “Your class has been asked to...” Be sure to put it in a real world context. The challenge should be testable – think about how you will test it. For example... Mrs. Smith, the media specialist, would like to report the wind speed and direction on the news show each morning. Your challenge is to create a weather instrument that will be able to measure the wind speed and direction.*

**CRITERIA/CONSTRAINTS**

*Based upon your research and class discussions your **project title** should meet these criteria:*

*This is where you will bullet point all of the criteria. Be specific. Think about what you can test. State in each part of the criteria, how the creation will be evaluated, ie. Your bird house will need to sustain a 5 mph wind. This is where you can be specific about measurements, shapes, size, dimensions, movement, etc. Some of the criteria will be the constraints, ie. You may choose only 5 items from the materials list below to complete the project.*

**MATERIALS:**

*Create a materials list here. Include easy to find materials, such as recyclable items. Students will need to be creative and figure out how to repurpose some of the items. Students should make a “shopping list” before collecting their materials. All of their materials and amount of materials should be stated in their approved (by the teacher) plan. Materials will become a constraint!*