

Name (Student/Team): \_\_\_\_\_

Design: \_\_\_\_\_ Date: \_\_\_\_\_

Design Cycle # (circle one)    1        2        3        4        5

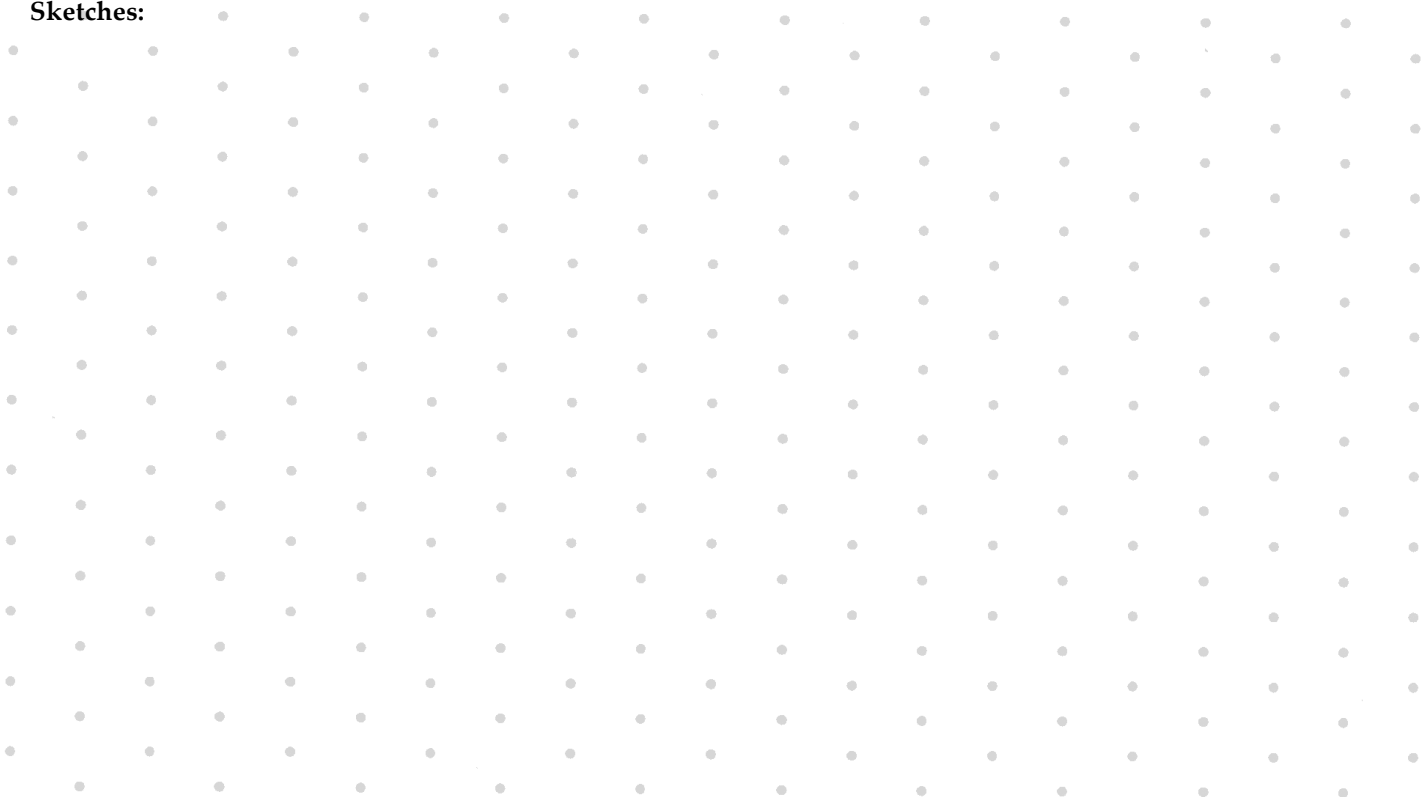
## Explore (Imagine/Brainstorm/Research)

|   |                                    |
|---|------------------------------------|
| Design Problem (in your own words)  |                                    |
| Success Criteria (e.g. height, speed)   | Constraints (e.g. cost, materials) |
| Other Design Variables (e.g. Cost, Height, Wind, Energy)                                      |                                    |
| IMAGINE: Brainstorm What You Already Know Or Might Research? What Key Features Matter To You? |                                    |

## Design (Draw and Build New Prototype or Modifications)

|   |                                     |
|---|-------------------------------------|
| Goal & Why? (rationale for this cycle ) | Plan for this cycle (e.g. timeline) |
|---|-------------------------------------|

Sketches:



A large grid of dots for sketching, consisting of 20 columns and 20 rows of small grey dots.



**Test** (Create Testing Process, Gather Data, Reflect)

**APPROACH:** What tools do you need to measure quality?

**HYPOTHESIS:** What do you predict for this round of testing – and why?



**REFLECT:** What worked – or didn't – with your latest design? What materials might you change? What features might you add? How might you improve your team's process in the next design cycle?