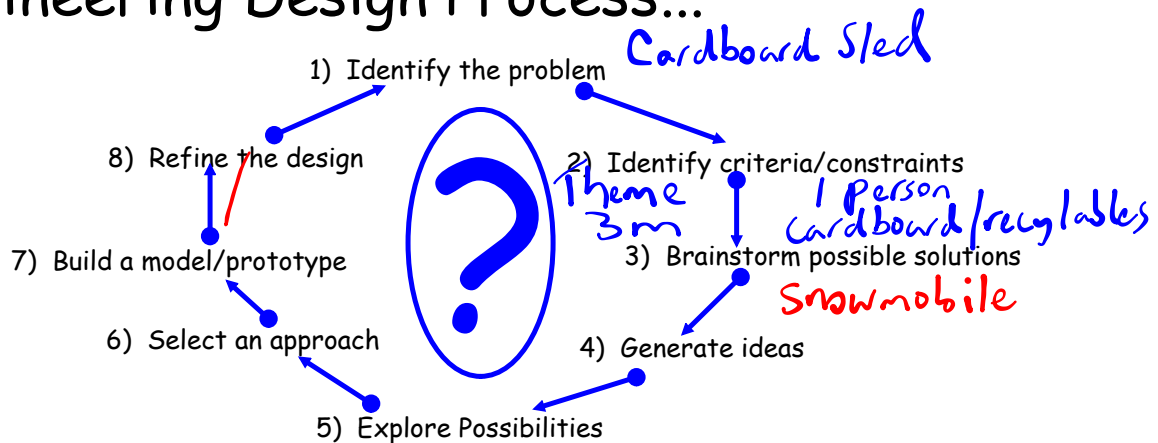


Engineering Design Process...



- 1) State the challenge in your own words.
- 2) Specify the design requirements.
- 3) **Sketch your ideas to solve the problem.** Labels and arrows identify parts and how they move. These drawings should be quick and brief.
- 4) Develop two or three ideas more thoroughly. Create new drawings in 3D and be neat.
- 5) Share ideas among team members...discuss pros/cons and make note on your drawings.
- 6) Identify the best design to solve the problem and write a statement to justify your choice.
- 7) Construct a full size or scale model.
- 8) Evaluate the design based on criteria/constraints. Changes may be needed and identify any problems. Propose a solution by beginning at step (1) again!