

Engineering Design Process Student Activity Sheet 2.5a

Student Name: _____

SCAMPER Reference Sheet

Question for Analysis

What are all the ways to design a *Micro Kart* chassis?

Instructions

Use this as a reference for the SCAMPER tool. Each component has its own questions that can help with brainstorming.

S - Substitute

Question(s): What can be used instead? What other part instead of this one? What can be replaced by something different?

C - Combine

Question(s): What elements could be combined? What outside elements could be combined to make this better?

A - Adapt/Alter

Question(s): What other process could be adapted? What different contexts can I put my concept in?

M - Magnify/Minimize

Question(s): What can be exaggerated? Larger? Extended? Made smaller? Less noticeable?

P - Put to Another Use

Question(s): What else can this be used for?

E - Eliminate

Question(s): What should you subtract or delete? What is not necessary?

R - Rearrange/Reverse

Question(s): What other arrangements are there? What are the opposites?