



## Engineering Design – Defining the Problem

*This sheet will help you define your problem and the requirements for your solution. You should not answer these with a specific solution in mind, this is intended to help you narrow down the characteristics of possible solutions.*

What problem do you intend to solve?

What are your expectations and limitations for your project?

What are your cost restrictions?

What types of safety precautions must be taken?

How effective must your solution be? (i.e. does it need to solve the problem 100% or will it simply address certain aspects of the problem?)

How efficient must your solution be? (i.e. how much power will be used? How quickly will this work?)



What kind of laws are in place concerning solutions to the problem?

Are there any other limitations or expectations do you have for your solution?

What other solutions have already been tried to solve the problem you intend to address? (You should conduct your research before answering this question. Be sure to cite your sources.)