Name: _____   Date: _____

Palm Farm Designs

Part 1: Define the Problem

Problem: Oil palm is a plant that provides a key ingredient for foods and cosmetics. Oil palm uses less land to grow compared to other crops, but it grows in the same places as rainforests. Oil palm is a cash crop that provides farmers in Indonesia with a steady income to support their families. When farmers clear land to plant oil palm, they sometimes cut down rainforests. This is related to orangutan and tiger populations going down.

Goal for a better oil palm farm:

Part 2: Define the Criteria and Constraints

Criteria: a standard that must be met by the design of the farm. (How will we know it works?)

1.

2.

3.

Constraint: a limitation to what can be designed. (What can we do or not do?)

1.

2.

3.

What do we need to test or measure to see if we meet the criteria and constraints?