

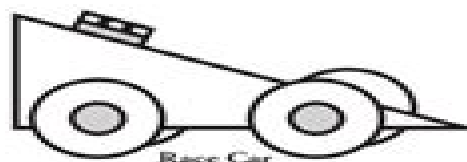
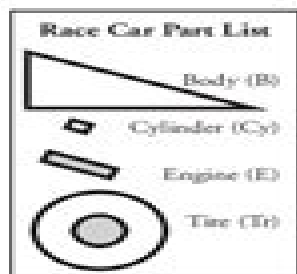
## Limiting and Excess Reactants

Is there enough of each chemical reactant to make a desired amount of product?

### Why?

If a factory runs out of tires while manufacturing cars, production stops. No more cars can be fully built without ordering more tires. A similar thing happens in a chemical reaction. If there are fixed amounts of reactants to work with in a chemical reaction, one of the reactants may be used up first. This prevents the production of more products. In this activity, you will look at several situations where the process or reaction is stopped because one of the required components has been used up.

### Model 1 – Assembling a Race Car



- How many of each part are needed to construct 1 complete race car?  
Body (B)                      Cylinder (Cy)                      Engine (E)                      Tire (Tr)
- How many of each part would be needed to construct 3 complete race cars? Show your work.  
Body (B)                      Cylinder (Cy)                      Engine (E)                      Tire (Tr)
- Assuming that you have 15 cylinders and an unlimited supply of the remaining parts:
  - How many complete race cars can you make? Show your work.
  - How many of each remaining part would be needed to make this number of cars? Show your work.



# Limiting And Excess Reactants Pogil Answers

**Daniela Niemeyer**



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