




# The Factory Challenge

Computer Aided  
Design  
Day 2



# Situation

Yesterday, you and your partner learned how to use CAD in a computer simulation. Today, you will use the same program to challenge your partner, not the computer!



# Problem

You will build a product on the computer.  
Your partner must make an exact copy.  
After he has attempted your product, he  
will make one to challenge you! Be sure to  
keep score on a scrap piece of paper to see  
who is the top engineer!



# Objectives

Students will use creativity and problem solving to use a Computer Aided Design (CAD) program. Students will compete against each other in a computer simulation.



# Materials

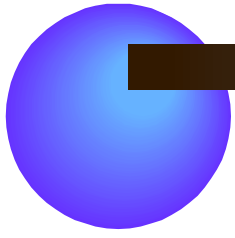
Computer program "The Factory" installed  
on the computer (1 per group)



# Requirements

Your grade will be based on the following performance:

- A = copy a product with 5 or more machines in the factory
- B = copy a product with 4 machines in the factory
- C = copy a product with 3 machines in the factory
- D = copy a product with 2 machines in the factory
- F = no products copied



# *Requirements*

Start the program using the directions from yesterday's design brief.  
Follow these directions to challenge your partner:

1. Select "Build a Factory" from the program menu. Your partner must turn away from the computer when you make the factory. Start by using only 3 machines. You can work your way up to more machines later.
2. When you finish designing your factory, select "Try" from the menu. The computer makes your product and asks if you want to change your factory. Select "No". The computer will now ask, "Do you want to challenge someone?" Select, "Yes".
3. Now your partner may turn around and try to try to make your product. To make it fair, each player should get 2 chances. The player must use the same number of machines (or fewer) than you did to make the product.