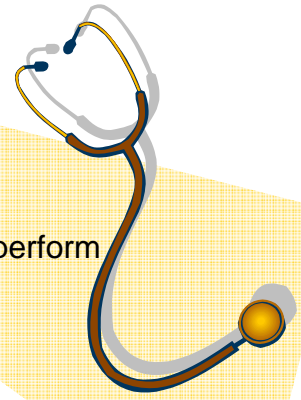


## HS - Activity #3

# Impaired!



**QUESTION:** What effect do alcohol and drugs have on one's ability to perform manual dexterity activities?

**MATERIALS:**

clouded sunglasses\*  
gloves  
mittens

stopwatch  
4" bolt with nut

**PROCEDURE:**

1. Form a group with 3 or 4 other students.
2. Use the stop watch to time how long it takes to thread the nut all the way onto the bolt. Record this time.
3. Repeat Step 2 two more times.
4. Repeat Steps 2 and 3 using the mittens.
5. Repeat Steps 2 and 3 using the gloves.
6. Repeat Steps 2 and 3 using the clouded sunglasses
7. Make a graph of the data you have collected?

**DATA:**

CONDITION	TRIAL 1	TRIAL 2	TRIAL 3	AVERAGE
Unimpaired				
Impaired - mittens				
Impaired - gloves				
Impaired - sunglasses				

**QUESTIONS:**

1. In this experiment what is are the dependent variables? The independent variables?
2. How are the gloves and the sunglasses impairing you, compared to the way drugs and alcohol impair you?
3. Did your time improve each time you performed a task? Why?
4. List daily tasks (even some jobs) that would be influenced by alcohol or other drug use?

\* To make clouded sunglasses, take an inexpensive pair of sunglasses and cover the lenses with a layer of white glue. Let the glue dry.