Scientific Method

- 1. Read each scenario below. Identify the independant variable, the dependant variable(s) and at least 2 other variables that must be controlled for the experiment to be valid.
- a) Determine if the amount of light affects the growth of plants.

Independant variable:	
Dependant variable(s):	
Controls:	

b) Determine if the amount of salt on the road affects the amount of rust on cars.

Independant variable:	
Dependant variable(s):	
Controls:	

c) Determine if the amount of homework completed affects the final mark in science.

Independant variable:	
Dependant variable(s):	
Controls:	

d) Determine if the type of tire affects the distance it takes a car to stop.

Independant variable:	
Dependant variable(s):	
Controls:	

Choose one of the scenarios (except c) and create a valid experiment.

Purpose - why are you doing the experiment?	The purpose of this experiment is to determine
Variables	independant:
	dependant:
	controls:
Hypothesis - predict a possible outcome and explain why	
Materials -a list of necessary materials to conduct experiment	
Procedure -a numbered list of steps required to complete the experiment - be as specific and detailed as possible	
Observations -what type of observations will you be making?	
Conclusion	Not possible without completing the experiment!