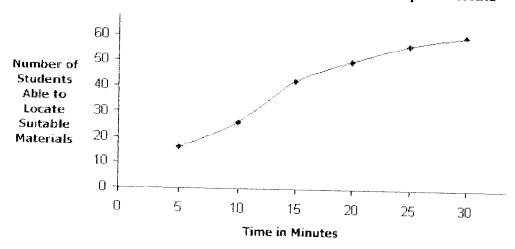
## Unit 1 Test Review

- 1. What are the three main branches of science?
- 2. List at least one sub-branch of each branch of science.
- 3. List the steps of the scientific method in order and briefly describe each one.

- 4. Contrast a scientific method and a scientific law. Give an example of each.
- 5. When can scientific theories be changed or replaced?
- 6. Be able to define all vocabulary terms for the unit.
- 7. On the graph below, what is the independent variable and what is the dependent variable?

## Time Needed to Locate Suitable Library Materials



| Identifying Va   | ariables and Groups   |
|--|---|
| In each of the examples, identify the independent participants make up the experimental group are  | nt variable and dependent variable as well as which and which make up the control group.  |
| investigator is most interested in the effects of  Dependent Variable = What is measured or obs  Experimental Group = Those participants treated ins | remanipulates; the particular treatment or condition the served; the "data" collected in the experiment osed to the independent variable at like the experimental group EXCEPT they are not with which the experimental group can be compared                         |
| are placed on a waiting list for 8 weeks. At the end of the 8 depression.  | 8 weeks of a new cognitive-behavioral therapy, while the other 50 weeks all 100 are given psychological tests to assess their level of  |
| Independent Variable:  | Dependent Variable:   |
| Experimental Group:  | Control Group:  |
| daily injections of a placebo (fake drug), while 24 others red<br>the communal cages of all rats allow all aggressive encount                        | oids on the aggressive behavior of female rats. 24 female rats received aily injections of the steroid. Round-the-clock videotapes of the steroid ters to be counted and timed.  Dependent Variable:  |
| Independent Variable:  | Control Group:  |
| Experimental Group:  | Control Group.  |
| (number of products packed). Workers in two equivalent padegrees, the other room is left at the usual company temper                                 |   |
| Independent Variable:  | Dependent Variable:   |
| Experimental Group:  | Control Group:  |
| college students diagnosed with Attention Deficit Hyperac  | neir new drug Attendomax to improve the note-taking behavior of ctivity Disorder. Fifty of the students receive capsules contain a same but actually contain the drug Ritalin which has been used for and have their notes collected afterwards. Notes are scored for |
| Independent Variable:  | Dependent Variable:   |
| Experimental Group:  | Control Group:  |
|  |   |

**Experiments:** 

Name \_\_\_\_\_

Hour \_\_\_\_\_