Integrated Science I -- The Nature of Science

Mini-Jeopardy

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| Vocabulary | Experiments | Scientific Inquiry | Miscellaneous | School Daze |
| An experiment where only one variable is manipulated at a time is called a…  Controlled experiment | What data did students record in the Cricket Experiment?  Number of Chirps/temp. | Define “variable”  Factors tested or that change in an experiment | What animals did Jane Goodall study?  Chimpanzees (& apes) | How many biologic children does Mrs. J have?  Two |
| Written facts, figures & other evidence gathered through observations are…  data | What was the hypothesis in the Cricket Experiment from the book?  The # of cricket chirps increases with temperature | What is another term for the “manipulated” & “responding” variable?  MV=independent  RV= dependent | When you explain or interpret things based on what you’ve observed, this is…  inferring | Name 2 clubs Mrs. Jacobs is the adviser for at CLMS.  Industry Club  Watershed Challenge team |
| A possible explanation for observations or your answer to the problem question is a…  hypothesis | What is the dependent and independent variable in the Cricket Experiment?  DV= # of chirps  IV= temperature of tank | What is another name for the “question” step of Scientific Inquiry?  The Problem step | What is the difference between a theory and a law?  Both have been well tested. A law is proven & will happen every time. A theory can always be proven. | Name the 3 clubs Mr. Susol advises after school.  Chess/Strategy Club  Newspaper Club  Arts Club |
| Describe CLMS’s new gym quantitatively and qualitatively.  Quant=2 sets of bleachers, 1 basketball court, 6 bball nets,  Qual= large, bright, hot, loud | Why did the objects hit at the same time in the class demonstration?  All objects, no matter their mass, fall toward Earth at the same rate. | What is a good way to show patterns or trends in your data from an experiment?  Graph it | Name the 4 main sciences:  Chemistry, physics, earth/space, life | What is the name of the schoolwide bullying program?  Olweus |
| Define “Skepticism”.  Having an attitude of doubt, questioning things, thinking critically. | What are the independent and dependent variables in the Penny Boat Lab?  V=boat design  DV=# of pennies held | How would a good scientist communicate his or her results?  S/he would publish them in a scientific journal. | Refer to the “Chimp Food” diagram on p.9 of your textbook. What percentage of the chimps diet is seeds, leaves and blossoms?  43% | In what year did Watson and Crick discover the structure of DNA?  1953 |