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=independentRV= 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 ClubWatershed 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 chirpsIV= 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 ClubNewspaper ClubArts 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 designDV=# 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 |