Glen Crest Grade 8 Science Goals

COMMUNITY CONSOLIDATED SCHOOL DISTRICT 89
Learning for Life

Reporting Topic #1: Scientific Inquiry

Goal 1: I can develop an explanation to a question.
Goal 2: I know what needs to be considered when I test my explanation.
Goal 3: I know how to interpret the results of an experiment
Goal 4: I know how report my interpretation of an experiment.

Reporting Topic #2: Technology and Applied Science

Goal 5: I can identify a problem to which a design solution may be applied.
Goal 6: I can plan a design that will address a problem.
Goal 7: I can interpret the results of a prototype test.
Goal 8: I can communicate the results of my design process.

Reporting Topic #3: Scientific Practices and Critical Thinking

Goal 9: I can determine whether claims are scientific or pseudoscientific.
Goal 10: I can investigate the ethical issues involved in science and its technological applications.
Goal 11: I can describe the social value of chemistry and physics.

Reporting Topic #4: Physics & Chemistry

Goal 12: I can describe the reasons behind the evolution of the model of the atom.
Goal 13: I can describe the rationale behind the arrangement of the Periodic Table of the Elements.
Goal 14: I can compare and contrast what happens at the molecular level during physical and chemical changes.
Goal 15: I can indicate how the Laws of Conservation of Mass and Energy are operating during physical and chemical changes.
Goal 16: I can describe the different ways in which atoms bind to one another.
Goal 17: I can balance chemical equations.
Goal 18: I can describe the operation of Newton's Laws of Motion in practical situations.
Goal 19: I can apply my knowledge of the Newton's Laws of motion to the operation of complex machines.
Goal 20: I can describe the movement of objects scientifically and mathematically.

Reporting Topic #5: The Earth Sciences

Reporting Topic #6: Astronomy

Reporting Topic #7: Biology