

Regional Science Fair Project Categories - 2008

High School (9th - 12th)

Category	Description
Animal Sciences	Study of animals and animal life, including the study of the structure, physiology, development, and classification of animals. Animal ecology, physiology, animal husbandry, cytology, histology, entomology, ichthyology, ornithology, herpetology, etc.
Behavioral and Social Sciences	The science or study of the thought processes and behavior of humans and other animals in their interactions with the environment studied through observational and experimental methods.
Biochemistry	The study of the chemical substances and vital processes occurring in living organisms, the processes by which these substances enter into, or are formed in, the organisms and react with each other and the environment.
Cellular and Molecular Biology	The study of the structure and formation of cells.
Chemistry	The science of the composition, structure, properties, and reactions of matter, especially of atomic and molecular systems.
Computer Science	The study of information processes, the structures and procedures that represent processes, and their implementation in information processing systems. It includes systems analysis and design, application and system software design, programming, and datacenter operations.
Earth and Planetary Science	The study of sciences related to the planet Earth (Geology, mineralogy, physiography, oceanography, meteorology, climatology, speleology, seismology, geography, atmospheric sciences, etc.)

Category	Description
Engineering	The application of scientific and mathematical principles to practical ends such as the design, manufacture, and operation of efficient and economical structures, processes, and systems OR the application of scientific and mathematical principles to practical ends such as the design, manufacture, and operation of efficient and economical machines and systems.
Energy and Transportation	The study of renewable energy sources, energy efficiency, clean transport, and alternative fuels.
Environmental Sciences	The study of managing mans' interaction with the environment OR the analysis of existing conditions of the environment.
Medicine and Health Sciences	The science of diagnosing, treating, or preventing disease and other damage to the body or mind.
Microbiology	The study of micro-organisms, including bacteria, viruses, prokaryotes, and simple eukaryotes and of antibiotic substances.
Physics and Astronomy	Physics is the science of matter and energy and of interactions between the two. Astronomy is the study of anything in the universe beyond the Earth.
Plant Sciences	Study of plant life. Ecology, agronomy, horticulture, forestry, plant taxonomy, physiology, pathology, plant genetics, hydroponics, algae, etc.
HS Grade Group Project	High School Students may complete a group project (<u>3 or fewer students per group</u>) in any of the above categories.