

ST. WILLIAM OF YORK

Catholic School

**DIOCESAN SCIENCE FAIR /CATEGORY DESCRIPTIONS**

**1. Behavioral and Social Science** – Human behavior, social and community relationships.

**2. Biochemistry** – Chemistry of life processes-molecular biology, molecular genetics, photosynthesis, food chemistry, hormones, enzymes, etc.

**3. Botany** – Study of plant life-agriculture, horticulture, forestry, plant taxonomy, plant psychology, plant genetics, hydroponics, algae, etc. Please monitor projects to respect all life (plants and animals).

**4. Chemistry** – Study of nature and composition of matter and laws governing it.

**5. Computer Science** – Study and development of computer software and hardware and associated logical devices.

**6. Earth and Space Sciences** – Geology, mineralogy, physiography, oceanography, meteorology, climatology, astronomy, speleology, seismology, geography, etc.

**7. Engineering** – Technology: projects that directly apply scientific principles to manufacturing and practical uses.

**8. Environmental Sciences** – Study of pollution (air, water, and land) sources and their control; ecology.

**9. Mathematics** – Development of formal logic systems or various numerical and algebraic computations, and the applications of these principles- calculus, geometry, abstract algebra, number theory, statistics, complex analysis, probability.

**10. Medicine and Health** – Study of diseases and health of humans.

**11. Microbiology** – Biology of microorganisms.

1. **Physics** – Theories, principles, and laws governing energy, motion, forces, and their effects on matter.
2. **Zoology –** Study of animals, including diseases, behavior, and health.

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