St. Michael the Archangel
Chesterton Academy

Science Lab Upgrade Project

How to Donate

- Use the QR code to our giving portal
- Select “Chesterton Academy”
- Enter donation amount
- In comments leave a note to direct funds to this project. Example: **SMACA Science Lab - Celestial Sphere**
- If your item has already been covered, funds will be used to support the Science Lab Project in another way.



Celestial Sphere — **Aproximate Cost:** $100

The Celestial Globe is a demonstration device that shows the apparent positions of the stars visible from Earth. The 3-dimensional representation allows students to visualize the relative angular positions of the constellations and to estimate which stars will be visible from different places on Earth for any rotational position of the planet.



Acid Storage Cabinet — **Aproximate Cost:** $1,000

These durable laboratory cabinets are built from 1-inch exterior-grade plywood with a chemical-resistant finish for long-lasting classroom use. They feature spill containment, corrosion-resistant wooden hinges, and flexible configurations, with optional isolation storage available.



Hooked Mass Set — **Aproximate Cost:** $240

Bring force and motion labs to life with this Hooked Mass Set that makes it easy to add known weights to any setup. This kit spans 10 g to 1 kg and stacks vertically in 10 g increments up to a total of 2100 g, so students can change loads quickly and predictably.



100 mL Graduated Cylinders — **Aproximate Cost:** $180
10 mL Graduated Cylinders — **Aproximate Cost:** $120

The graduated cylinder is a fundamental tool in high school science classroom laboratories, providing the means to measure liquids with precision and accuracy. By understanding its components, mastering the art of reading measurements, and following essential tips, both high school science teachers and students can harness the full potential of this versatile instrument.

ST. MICHAEL THE ARCHANGEL
CHESTERTON ACADEMY

Science Lab Upgrade Project



Tuning Forks

Aproximate Cost: $160

These high-quality tuning forks provide accurate pitch and clear sound, with standard and premium aluminum options to meet a range of classroom needs. Available in sets of four or eight, they are corrosion-resistant, clearly labeled, and compatible with standard accessories for reliable and long-lasting use.



Digital Thermometers

Aproximate Cost: $140

These industrial pocket thermometers offer greater accuracy than standard thermometers and measure a wider temperature range in oil and gas, chemical processing, and renewable energy applications. Their LCD screen offers a precise numerical figure, making readings more direct and easier to interpret than analog thermometers.



Hall's Carriage

Aproximate Cost: $120

The Hall's Car is a durable plastic vehicle designed with a recessed area for adding weights, making it ideal for experiments on inclined planes. It supports hands-on learning of key physics concepts such as force, motion, acceleration, and momentum in the classroom.



Constant Speed Buggy

Aproximate Cost: $110

Bring kinematics to life with a rugged, battery-powered car that moves at a steady, repeatable speed. The Constant Velocity Car or "Tumble Buggy" gives students an easy, visual way to understand uniform motion—perfect for simple distance-and-time measurements that lead to clear results.



Measurement Challenge Lab

Aproximate Cost: $110

This hands-on measurement kit helps students build accuracy in measurement, estimation, and significant figures while progressing from basic length and area to more advanced volume and density concepts. Through engaging labs—including determining density and predicting mass without a balance—students are challenged at multiple levels, making it a versatile and valuable resource for science classrooms.

ST. MICHAEL THE ARCHANGEL
CHESTERTON ACADEMY

Science Lab Upgrade Project



Centigram Balances **Aproximate Cost:** $2,200

The OHAUS Scout is a compact, high-performance balance designed for laboratory and industrial use, featuring a slim, stackable design and an easy-to-read backlit display. It offers fast, precise measurements with multiple weighing modes, durable overload protection, and reliable accuracy for everyday applications.



Vernier Motion Detector **Aproximate Cost:** $1,100

The Motion Detector is used to measure position, velocity, and acceleration of moving objects.



Go!Link **Aproximate Cost:** $690

Vernier's low-cost USB sensor interface connects Vernier sensors to a computer or to a Chromebook.



Ice Machine **Aproximate Cost:** $320

An ice machine provides a reliable source of ice for experiments that require precise temperature control, such as chemistry reactions or biology sample preservation. It also supports hands-on learning by allowing students to safely explore concepts like heat transfer and states of matter.



Investigating Light & Optics Kit **Aproximate Cost:** $200

In the Investigating Light and Optics Laboratory Kit for physical science and physics, carry out five comprehensive, hands-on experiments and examine the nature of light, color and optics.