



**Science
corner**

**Discover, Learn,
Explore and
Research**

Science Corner

About NIHERST

Established in 1984 by an Act of Parliament, NIHERST has been mandated the national leaders in Science Technology and Innovation (STI). Consistent with national development goals, the Institute promotes science, technology and higher education in Trinidad and Tobago.

Its current work focuses on the development of a more diversified, knowledge-driven economy, based on the ingenuity of the people and their ability to create, adapt and use science and technology for national development.

NIHERST continues to be fully responsive and proactive in the face of the rapidly evolving developmental needs of the country, particularly within the context of global changes.

Our Mission: To stimulate sustainable national capability and capacity in Science, Technology, Innovation, and Technopreneurs through insightful research and relevant programmes.

Our Vision: We envisage a nation and region that apply scientific, technological, and innovative solutions to propel sustainable socio-economic and environmental transformation.

About NALIS

The National Library and Information System Authority (known as NALIS) is a corporate body established by the NALIS Act No. 18 of 1998 to administer the development and coordination of library and information services in Trinidad and Tobago.

As a statutory authority under the Office of the Prime Minister, Communication, NALIS is governed by a board which ensures proper and efficient performance of the functions of the organisation. NALIS is managed by an Executive Director assisted by a Deputy Executive Director and Directors and Managers of its various Divisions and Departments.

NALIS provides library and information services at the Heritage Library (located in the National Library Building, Port-of-Spain), 25 public libraries, 46 special libraries, 133 secondary and 483 primary school libraries, 25 ECCE centres. Library services are also provided through its website at www.nalis.gov.tt and its social media sites: the blog, Facebook, Twitter and Youtube.com

The National Library of Trinidad and Tobago, located at 23 Abercromby Street in Port of Spain, is the administrative seat and focal point of NALIS' libraries and information service centres in Trinidad and Tobago. The Science Corner is situated on the First Floor of the Building, in the Port of Spain Adult Library.

About Science Corner

Commissioned as interactive educational hubs resulting from the collaborative efforts outlined in the Memorandum of Cooperation between NIHERST and NALIS. Science corners will showcase scientific and technological exhibits curated by NIHERST and will be located within public libraries nationwide.

The primary goal is to support students, educators, and researchers in their quest for knowledge. The exhibitions will provide an extensive array of scientific literature, multimedia, and educational materials.

In its practical implementation, the ceremony signifies the joint commitment of both NIHERST and NALIS to actively involve the community. Through a series of workshops, seminars, and outreach programmes, this initiative aims to instill a passion for science and technology across all age groups.



Exhibit Details


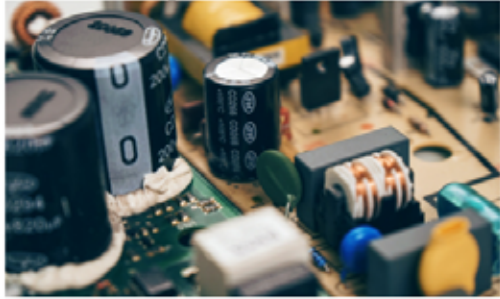

EXHIBIT	BRANCH OF SCIENCE <i>TOPIC</i>	LEARNINGS
<p>Electricity Table – Circuits</p> 	<p>Physics <i>Electricity</i></p>	<p>Explore the basics of circuitry, experiment with circuit building, and uncover the principles behind electricity flow in this engaging hands-on experience.</p>
<p>Electricity Table – Power</p> 	<p>Physics <i>Electricity</i></p>	<p>Unleash the power of electricity with this interactive exhibit which explores the formula $P = V \times I$. Manipulate voltage and current to understand the fundamental relationship that defines electrical power</p>
<p>Electricity Table – Volts & Amps</p> 	<p>Physics <i>Electricity</i></p>	<p>Explore series and parallel circuits, investigate the flow of electric current, and uncover the intriguing relationship between voltage and amperage in this enlightening exhibit.</p>

Exhibit Details

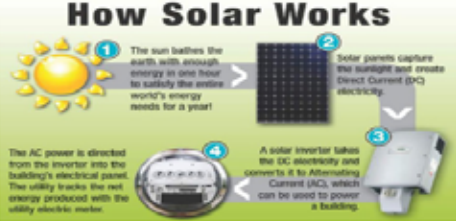
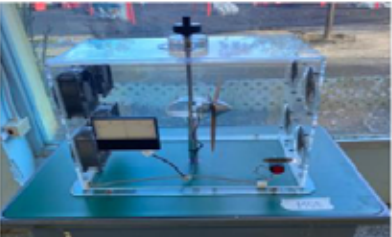


EXHIBIT	BRANCH OF SCIENCE <i>TOPIC</i>	LEARNINGS
<p>Solar Power</p> <p>How Solar Works</p>  <p>The sun bathes the earth with enough energy in one hour to satisfy the entire world's energy needs for a year!</p> <p>Solar panels capture the sunlight and create Direct Current (DC) electricity.</p> <p>A solar inverter takes the DC electricity and converts it to Alternating Current (AC), which can be used to power a building.</p> <p>The AC power is directed from the inverter into the building's electrical panel. The utility tracks the net energy produced with the utility electric meter.</p>	<p>Environmental Science <i>Renewable Energy</i></p>	<p>Unveil the magic of light-to-electricity conversion in this exhibit which showcases the wonders of photovoltaic cells.</p>
<p>Wind Generator</p> 	<p>Environmental Science <i>Renewable Energy</i></p>	<p>Witness a wind turbine in action and explore the sustainable potential of harnessing wind power.</p>
<p>Alternative Energy Sources</p> 	<p>Environmental Science <i>Renewable Energy</i></p>	<p>Step into the world of renewable energy with this exhibit that showcases solar, wind, and hydropower, the science behind sustainable energy sources, and their environmental benefits.</p>
<p>Tangrams</p> 	<p>Mathematics <i>Geometry</i></p>	<p>Engage in spatial reasoning and problem-solving skills with the ancient Chinese art of tangrams through captivating challenges and shape-shifting fun.</p>

Exhibit Details




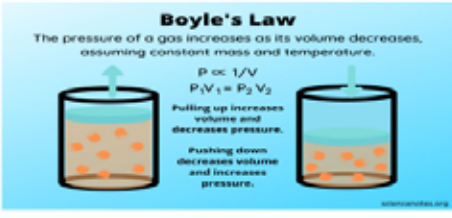
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<p>Tower of Hanoi</p> 	<p>Mathematics <i>Recursion</i></p>	<p>Challenge your logical thinking and problem-solving skills with the ancient Tower of Hanoi puzzle, through manoeuvring and strategizing to transfer the discs in the fewest moves possible.</p>
<p>Tinker Stations (Adult & Child)</p> 	<p>Applied Physics <i>Structural Engineering</i> <i>Mechanical Engineering</i> <i>Architecture</i></p>	<p>Unleash total creativity and engineering prowess at our Tinker Stations, where builders of all ages can construct, innovate, and bring their imagination to life with endless Lego® possibilities.</p>
<p>Charles' Law</p> 	<p>Physics <i>Thermodynamics</i></p>	<p>Step into the world of gases with the Charles' Law exhibit to discover the effects of temperature changes on gases and explore the relationship between volume and temperature.</p>
<p>Boyle's Law</p>  <p>Boyle's Law The pressure of a gas increases as its volume decreases, assuming constant mass and temperature.</p> <p>$P \propto 1/V$ $P_1 V_1 = P_2 V_2$</p> <p>Pulling up increases volume and decreases pressure.</p> <p>Pushing down decreases volume and increases pressure.</p>	<p>Physics <i>Thermodynamics</i></p>	<p>Explore the captivating principles of Boyle's Law by using this interactive exhibit to manipulate gas volumes and pressures and to observe the inverse relationship between them.</p>

Exhibit Details





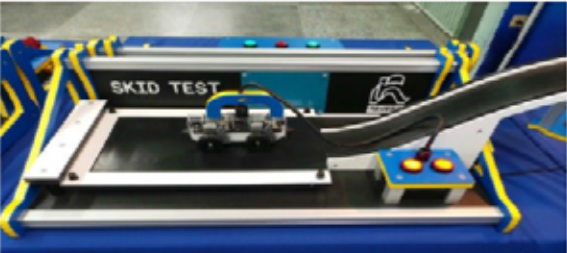


EXHIBIT	BRANCH OF SCIENCE <i>TOPIC</i>	LEARNINGS
<p>Heat Transfer</p> 	<p>Physics <i>Thermodynamics</i></p>	<p>Experience the power of thermocouples and witness first-hand how they convert temperature differences into electrical signals.</p>
<p>Corrosion Protection</p> 	<p>Physics <i>Electrochemistry</i></p>	<p>Discover the corrosive forces at work in an oil pipeline and the electrochemical process leading to metal deterioration, unravelling the definition and impact of corrosion in the industry.</p>
<p>See Stress</p> 	<p>Materials Science <i>Properties of materials</i></p>	<p>Unveil the invisible forces of stress using this exhibit by manipulating birefringent shapes on an illuminated table, revealing colourful lines that showcase the hidden patterns and distribution of stress within materials.</p>
<p>Pressure</p> 	<p>Physics <i>Applied Forces</i> <i>Fluid Mechanics</i></p>	<p>Understand the basics of pressure through hands-on manipulation of this exhibit which features a sand bed with three shapes of equal surface area but different dimensions.</p>

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Skid Test 	Physics <i>Forces Mechanics</i>	Discover the intricate interplay of friction and acceleration with this exhibit which demonstrates the science behind deceleration and explores brake mechanisms, highlighting their vital role in vehicle safety.
Jacob's Ladder (Climbing Arc) 	Physics <i>Electricity</i>	Be amazed by the mesmerizing electric display of Jacob's Ladder which displays high-voltage arcs gracefully climbing and dancing, showcasing principles of electrical conduction and air ionization.
Everyone Is You and Me 	Physics <i>Optics</i>	Learn about the science behind one-way mirrors and explore their unique properties with the clever interplay of light and reflection demonstrated in this exhibit.

A graphic for "Science Corner" featuring various laboratory equipment like beakers, test tubes, and a microscope, with the word "Science" in yellow and "corner" in blue.

Science corner



**Scan to make
your booking**

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