



**NIHERST ISTEM CLUB**

**ACADEMIC YEAR 2020-2021 || TERM 2: JAN – MARCH 2021**

**LEARNING OBJECTIVES AND REQUIRED MATERIALS/SUPPLIES**

**5 – 6 YEARS**

The following table details the intended learning outcomes for the term. Recommended materials and supplies are also listed.  
*In the event that you are not able to provide all the materials, the member can still follow along during the session. Each member will be provided with a booklet containing instructions for each activity and supplemental information. This resource can be used to do or repeat activities independently at a later date.*

**THIS TERM, BEAUTY IS IN THE EYE OF THE BEHOLDER...  
COME JOIN US WHERE ART MEETS STEM SCIENCE ALLOWS US TO SEE ART IN VARIOUS FORMS, FROM OUR  
COLOURFUL CULTURE AND DIVERSITY IN NATURE, TO DESIGNS IN MATHEMATICS, CHEMISTRY AND ENGINEERING.  
THERE'S ART ALL AROUND US, THAT'S A FACT!  
GET READY FOR A FUN FILLED TERM...  
WELCOME TO *ART ATTACK!***

**5 - 6 YEARS**

<b>SESSION</b>	<b>OBJECTIVES</b>	<b>GENERAL MATERIALS</b>
<b>Art in Nature</b> Jan 23 <sup>rd</sup>	<p>At the end of this session, members should be able to:</p> <ul style="list-style-type: none"> <li>• Use natural resources to create art</li> <li>• Identify designs and patterns that occur naturally</li> </ul>	Scissors, paints, paintbrush, pallet, crayons, hot glue and glue gun, craft glue, clear tape, small plain pallet sticks, large clear cellophane bag, cardboard or hard paper, white printing paper, construction paper, yarn, leaves of assorted shapes and sizes, grass blades, small flowers, twigs and small branches, wax paper, contact paper
<b>Art in Math</b> Jan 30 <sup>th</sup>	<ul style="list-style-type: none"> <li>• Recognise and explore repeating patterns using plane shapes</li> <li>• Understand the difference between 2D &amp; 3D shapes</li> <li>• Use creativity to construct models using 3D shapes</li> <li>• Understand the meaning of symmetry and identify examples of symmetry in nature</li> </ul>	Cardboard, black construction paper, coloured paper, sketchbook pages, paint (different colours), scissors, paper glue, hot glue, pencil, ruler, paintbrush, cereal boxes, toothpaste boxes, paper towel rolls, empty food cans, cone-shaped birthday party hats, 3D-shaped recyclable materials , printable templates provided by NIHERST
<b>Art in Culture</b> Feb 13 <sup>th</sup>	<ul style="list-style-type: none"> <li>• Understand that art is an important part of Trinidad’s culture</li> <li>• Use wire bending and embossing techniques to create jewellery and ornaments</li> </ul>	Scissors, paints, paintbrush, pallet, crayons, hot glue and glue gun, craft glue, clear tape, hole punch, craft decorative supplies – glitter, gems, sequins, feathers, mask template (provided in booklet), bending wire, a stone or large crystal, small pliers or jewellery pliers, a keyring, foil, yarn
<b>Art in Engineering</b> Feb 27 <sup>th</sup>	<ul style="list-style-type: none"> <li>• Explain how physical forces are used in the creation of art</li> <li>• Identify early designs in architecture</li> <li>• Understand the importance of art in civil engineering and architecture</li> </ul>	A disposable plate (7-inch diameter), construction paper, white Bristol board (18x24”), markers, scissors, tape, string, glue, hole punch or needle, wire clothes hanger, paintbrush, paper towel rolls, a shoebox cover, printable templates provided by NIHERST
<b>Art in Chemistry</b> March 6 <sup>th</sup>	<ul style="list-style-type: none"> <li>• Explain density using oil and water</li> <li>• Understand the process of separating different mixtures by passing a solution through a medium</li> <li>• Understand the concept of chemical reactions</li> </ul>	1L soda bottle, vegetable oil, corn syrup, food colouring (red and blue), an Alka Seltzer tablet, white coffee filters, washable markers, scissors, clear tape, kebab stick, baking soda, cream of tartar, olive oil, essential oil, water in a spray bottle, mold (silicon molds, ice trays, plastic eggs), granulated sugar, water, light corn syrup, foil tray
<b>Final Session</b> March 20 <sup>th</sup>	<ul style="list-style-type: none"> <li>• Recall all explored concepts and activities during the previous meetings</li> </ul>	n/a