



**PROJECT:** Mass Production and Supply of Science and Mathematics Equipment Packages to Public Elementary for Grades 1 to 3 & Grades 4 to 6, Public Junior High School for Grades 7 to 10 and Public Senior High School for Grades 11 to 12 (Core and Stem)

**CONTRACT NO.:** 2021-BLR4(001to006)-BV-CB-009-C130

**CONTRACT AGREEMENT**

AUG 26 2021

**THIS AGREEMENT** made and entered into this \_\_\_\_\_ day of \_\_\_\_\_ 2021 by and between **DEPARTMENT OF EDUCATION**, located at DepEd Complex, Meralco Avenue, Pasig City, Philippines, represented herein by its Secretary, **LEONOR MAGTOLIS BRIONES**, as per Department Order No. 023, s. 2021 (hereinafter referred to as "DEPED"); and **ANDSONS EDUCATIONAL RESOURCES, INC. IN JOINT VENTURE WITH TRITON DEFENSE AND LOGISTICS, INC.** represented herein by its Authorized Representative, **ALOURA ANN TORDED0**, with office address at Block 22, Lot 2, Sicily St., Pallas Athena Executive Village, Anabu II-C, Imus, Cavite, Philippines (hereinafter referred to as "ANDSONS JV TRITON").

DEPED and ANDSONS JV TRITON are collectively called "PARTIES."

**WHEREAS**, DEPED invited bids for the mass production and supply of Science and Mathematics Equipment Packages consisting of sixteen (16) Lots and received bids from eight (8) bidders; DEPED opened, read, and evaluated the bids of the eight (8) bidders and declared ANDSONS JV TRITON as having the lowest calculated bid for Lot No. 8; after evaluation, DEPED post-qualified and declared the bid of ANDSONS JV TRITON as the lowest calculated responsive bid for Lot No. 8 in the sum of PHILIPPINE PESOS ONE HUNDRED FOURTEEN MILLION, EIGHT HUNDRED EIGHT THOUSAND, EIGHT HUNDRED SEVENTY-TWO and 00/100 (PhP 114,808,872.00) ONLY, (hereinafter called the "Contract Price") detailed as follows:

Lot No.	Description	Amount (PhP)
8	MATHEMATICAL MANIPULATIVES (MI-LOT 8)	114,808,872.00

**NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:**

1. In this Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.

8.26.2021  
**ORIGINAL SIGNED**  
**CERTIFIED DUPLICATE COPY**  
 CMDCDC-2021C130-014

*John Duron*  
 ANDSONS JV TRITON's Witness

*Aloura Ann Torredo*  
 ALOURA ANN TORDED0  
 ANDSONS JV TRITON

*Ariz Delson Acay D. Cawilan*  
 ARIZ DELSON ACAY D. CAWILAN  
 DEPED's Witness

*Leonor Magtolis Briones*  
 LEONOR MAGTOLIS BRIONES  
 Department of Education

2. The following documents as required by the 2016 Revised Implementing Rules and Regulations of Republic Act No. 9184 shall be deemed to form and be read and construed as part of this Agreement, viz:


- i. Philippine Bidding Documents (PBD);
  - a. Schedule of Requirements;
  - b. Technical Specifications;
  - c. General and Special Conditions of the Contract;
  - d. Bid Bulletin No. 1 dated June 1, 2021;
  - e. Bid Bulletin No. 2 dated June 4, 2021;
  - f. Bid Bulletin No. 3 dated June 9, 2021; and
  - g. Bid Bulletin No. 4 dated June 15, 2021.
- ii. **ANDSONS JV TRITON's** bid, including the Eligibility Requirements, Technical and Financial Proposals, and all other documents or statements submitted;
- iii. Performance Security;
- iv. Notice of Award of Contract and **ANDSONS JV TRITON's** conforme thereto; and
- v. Other contract documents required by existing laws and/or DepEd in the PBD. **ANDSONS JV TRITON** agrees that additional contract documents or information prescribed by the GPPB that are subsequently required for submission after the contract execution, such as the Notice to Proceed, Variation Order, and Warranty Security, shall form part of the Contract.

3. The goods supplied by **ANDSONS JV TRITON** under this Contract shall be picked-up or hauled by the third-party logistics provider designated by **DEPED**. Risk and title to the goods shall pass from **ANDSONS JV TRITON** to **DEPED** upon receipt and final acceptance at **ANDSONS JV TRITON's** warehouse. However, assembly, installation, start-up and/or commissioning of items, in cases where they are necessary, shall remain to be the responsibility and for the account of **ANDSONS JV TRITON** notwithstanding inspection and acceptance at its warehouse or premises.

4. The goods shall be ready for pick-up or hauling by the third party logistics within **one hundred forty-four (144) calendar days** from receipt of **ANDSONS JV TRITON** of the Notice to Proceed.

5. **ANDSONS JV TRITON** shall post a Performance Security within ten (10) calendar days from receipt of the Notice of Award in the form and amount prescribed therein. The performance security shall be posted in favor of **DEPED**, and shall be forfeited in the event it is established that **ANDSONS JV TRITON** is in default of any of its obligation under this contract. **ANDSONS JV TRITON** shall be responsible for the extension of its performance security and/or

  
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ANDSONS JV TRITON's Witness

  
ALOURA ANN TORDEDO  
ANDSONS JV TRITON

  
ARIZ DELSON ACAY D. CAWILAN  
DEPED's Witness

  
LEONOR MAGTOLIS BRIONES  
Department of Education

undertake to renew its performance security whenever necessary, and without need of prior notice or instruction from the **DEPED**, to ensure that it is in force and effect for the whole duration of the contract and until a Certificate of Final Acceptance is duly issued.

6. The goods supplied under this Contract should conform to and comply with the standards mentioned in Section VI. Schedule of Requirements of the Bidding Documents, as amended by Bid Bulletin Nos. 1, 2, 3 and 4 dated June 1, 2021, June 4, 2021, June 9, 2021 and June 15, 2021, respectively, and must be in accordance with the technical specifications, a copy of which is hereto attached as Annex "A" and made an integral part hereof. Any proposal to deliver items of equivalent, higher or superior technical specifications, in lieu of those of the approved bids or samples shall be discretionary to **DEPED** and is subject to the evaluation and recommendation of the end-user or implementing units and the approval of the herein authorized representative and signatory.

7. Goods with defects or non-compliant with the required specifications during pre-delivery inspection shall be replaced immediately by **ANDSONS JV TRITON**, and replacement items shall be subjected to re-inspection. Goods with defects or non-compliant with the required specifications upon delivery shall be rejected by **DEPED** and replaced by **ANDSONS JV TRITON** in accordance with the warranty provisions in the bidding documents. **DEPED** shall have the option to inspect **ANDSONS JV TRITON's** premises covered by the Contract, at any time or stage of contract implementation, to monitor and assess **ANDSONS JV TRITON's** capacity to discharge its contractual obligations.


8. The procured goods or items contemplated under this Contract shall be inspected by **DEPED** Inspectorate Team prior to pick-up or hauling from **ANDSONS JV TRITON's** warehouse in accordance with the provisions of the Special Conditions of the Contract, the Schedule of Requirements, or otherwise indicated in other parts of the bidding documents.

9. In case **ANDSONS JV TRITON** encounters condition(s) impeding timely delivery of the goods, **ANDSONS JV TRITON** shall promptly notify **DEPED** Procurement Management Service-Contract Management Division (ProcMS-CMD) in writing of such condition(s). As a rule and on account of the emergency nature of this project, no work suspensions and/or contract delivery period extension shall be allowed.

10. The Contract Price shall be paid to **ANDSONS JV TRITON** in accordance with the following disbursement procedures:

10.1. An advance payment not to exceed fifteen percent (15%) of the Contract Price shall be allowed and paid within sixty (60) calendar days from signing of the contract. An irrevocable Letter of Credit or Bank Guarantee of an equivalent amount must be submitted, and shall remain

  
DION  
ANDSONS JV TRITON's Witness

  
ALOURA ANN TORREDO  
ANDSONS JV TRITON

  
ARIZ DELSON ACAY D. CAVILAN  
DEPED's Witness

  
LEONOR MAGTOLIS BRIONES  
Department of Education

valid until the goods are delivered, and accompanied by a claim for advance payment.

10.2. **ANDSONS JV TRITON** may submit a request for payment based on Progress Reports which shall be attached to the progress billing and include the following: (i) cumulative quantities of items delivered based on the schedule of deliveries and other relevant terms and conditions of the Contract; (ii) Inspection and Acceptance Reports (IARs), including certification by **ANDSONS JV TRITON**, duly signed and dated by the authorized representative of the **DEPED** indicating that the items have been delivered in accordance with the Contract. Other documents in support of a request for payment may be prescribed by **DEPED** pursuant to existing disbursement, accounting and auditing rules and procedures.

10.3. Subject to the recoupment of the advance payment contemplated in Clause 10.1. above, and retention contemplated in the immediately succeeding clause, payment shall be made to **ANDSONS JV TRITON** within sixty (60) days from submission of the documents specified in SCC Clause 2.2 and other documents as may be prescribed by **DEPED**, in the following manner:

10.3.1. For the initial progress payment, a minimum of twenty-five percent (25%) of the Contract Price shall be paid to **ANDSONS JV TRITON** upon a minimum of twenty-five percent (25%) delivery and acceptance of the items by **DEPED's** authorized representative;

10.3.2. Final payment shall constitute release of the retention money in case of expiry of the warranty period, or whatever is left of it, after it has been called for use under the warranty provision.

11. Payments shall be subject to the "Warranty" provision in the form of either retention money in an amount equivalent to three percent (3%) of every progress payment or a Special Bank Guarantee in the amount equal to three percent (3%) of the Contract Price required under Section 62 of R.A. 9184 and its revised IRR.

11.1. The warranty period of one year, for applicable items as specified in Annex "J" of the bidding documents, shall reckon from the date of issuance of Certificate of Final Acceptance by **DEPED**.

12. **ANDSONS JV TRITON** shall be liable for liquidated damages for the delay in its performance in an amount equal to one-tenth (1/10) of one percent (1%) of the cost of the delayed goods scheduled for delivery, for every day of delay until such goods are finally delivered and accepted by **DEPED**. **DEPED** shall deduct the liquidated damages from any money due or which may become due to

  
ANDSONS JV TRITON's Witness

  
ALOURA ANN TORDEDO  
ANDSONS JV TRITON

  
ARIZ DELSON ACAY D. CAVILAW  
DEPED's Witness

  
LEONOR MAGTOLIS BRIONES  
Department of Education


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ANDSONS JV TRITON, or collect from any of the securities or warranties posted by ANDSONS JV TRITON, whichever is convenient to DEPED. Once the cumulative amount of liquidated damages reaches ten percent (10%) of the Contract Price, DEPED may rescind or terminate the Contract, without prejudice to other courses of action and remedies available under the circumstances.

13. The PARTIES shall make every effort to resolve amicably and by mutual consultation any and all disputes or differences arising between the Parties in connection with the implementation of the Agreement. Should such dispute not be resolved amicably, it shall be submitted to arbitration in the Philippines according to the provisions of Presidential Decree No. 242 and Executive Order No. 292. Provided, however, that by mutual agreement, the Parties may agree in writing to resort to other alternative modes of dispute resolution.

IN WITNESS WHEREOF, the Parties hereto have caused this Agreement to be executed in accordance with governing laws on the day and year first above written.

SIGNED, SEALED AND DELIVERED BY:

  
LEONOR MAGTOLIS BRIONES  
Secretary  
Department of Education

  
ALOURA ANN TORDED0  
Authorized Representative  
ANDSONS JV TRITON

SIGNED IN THE PRESENCE OF:

  
ARIZ DELSON ACAY D. CAWILAN  
DEPED's Witness

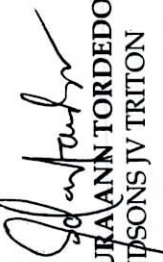
  
John Homer Duran  
ANDSONS JV TRITON's Witness

CERTIFIED FUNDS AVAILABLE: ₱114,808,872.-

  
M.A. RHUNNA L. CATALAN  
Chief Accountant  
Chief Accountant

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Duran  
ANDSONS JV TRITON's Witness

  
ALOURA ANN TORDED0  
ANDSONS JV TRITON

  
ARIZ DELSON ACAY D. CAWILAN  
DEPED's Witness

  
LEONOR MAGTOLIS BRIONES  
Department of Education

REPUBLIC OF THE PHILIPPINES)  
METRO MANILA) S.S

**MANILA**

**ACKNOWLEDGMENT**

BEFORE ME, a Notary Public in and for \_\_\_\_\_, Philippines,  
this \_\_\_\_ day of AUG 26 2021 personally appeared:

**NAME** **GOVERNMENT ISSUED ID**  
(Number, Issued On, Issued By)

**LEONOR MAGTOLIS BRIONES** *Passport No. 0001038A*  
Department of Education

**ALOURA ANN TORDEDO** *Company ID ATR1-0011*  
ANDSONS JV TRITON

Known to me and to me known to be the same persons who executed the foregoing instrument and acknowledge to me that the same is the free and voluntary act and deed of the entities which they respectively represent.

The foregoing instrument is a CONTRACT consisting of six (6) pages (exclusive of attachments), including this page on which this acknowledgment is written and signed by the parties hereto and their instrument witness on the left-hand margin of each and every page hereof.

WITNESS MY HAND AND SEAL on the date and place first above written.

Doc. No. 798  
Page No. 8/1  
Book No. 66  
Series of 2021.

**ATTY. ANTONIO G. MALONZO**  
**NOTARY PUBLIC**  
887 E. Paredes Street, Sempaloc, Manila  
Telephone No. 8735-45-26  
Roll No. 28170 April 20, 1978  
IBP NO. 9788229 Mla. dated 9-29-20 for 2021  
TIN No. 106-187-050  
PTR No. 9788229 1-4-2021 Mla.  
Commission No. 2021-021 3-2-2021  
Until December 31, 2022  
MCLE VI-0011185 Ermita, Manila  
March 17-20-April 21-28, 2018

*[Signature]*  
ANDSONS JV TRITON's Witness

*[Signature]*  
ALOURA ANN TORDEDO  
ANDSONS JV TRITON

*[Signature]*  
ARIZ DELSON ACAY D. CAWILAN  
DEPED's Witness

*[Signature]*  
LEONOR MAGTOLIS BRIONES  
Department of Education

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## Lot No. 8. MATHEMATICAL MANIPULATIVES

Item No.	Description	Technical Specifications
1	<p>Algebra Tiles, set of 30</p> <p>Quantity: 2,279</p>	<p><b>Functional Specifications:</b> Used to demonstrate algebraic concept up to second degree polynomial.</p> <p><b>Performance Specifications:</b> Able to represent mathematical expressions and equations to introduce and foster algebraic concepts, including adding and subtracting polynomials, factoring trinomials, and the Zero Principle.</p> <p><b>Design Specifications:</b> Set of 30 that includes the following:</p> <ul style="list-style-type: none"> <li>a. 6 pcs of Square Tile (Squared Variable Tile) about 90mm x 90mm x 1mm in size and color blue</li> <li>b. 16 pcs of Long Tile (Variable Tile) about 90mm x 21mm x 1mm in size and color green</li> <li>c. 24 pcs of Ones Tile (Constant Tile) about 21mm x 21mm x 1mm in size and color yellow</li> </ul> <p>Each kind of tile have RED back color to denote the Negative side of the tiles.</p> <ul style="list-style-type: none"> <li>2. Made of good quality plastic and has no sharp edges.</li> <li>3. Stored in a plastic storage box with a capacity to store 1,300 pcs of Algebra Tiles.</li> </ul>
2	<p>Base ten Block</p> <p>Quantity: 3,749</p>	<p><b>Functional Specifications:</b> Used to demonstrate abstract mathematical concept of the number system such as one-to-one correspondence, place value, and basic addition and subtraction</p> <p><b>Performance Specifications:</b> Able to demonstrate a number's value and place value and vice versa.</p> <p><b>Design Specifications:</b></p> <ul style="list-style-type: none"> <li>1. Made of hard plastic, smooth surface and edges, and free from toxic materials</li> <li>2. The set includes 100 units (1 cm x 1 cm x 1 cm)-Red , 10 rods (1 cm x 1 cm x 10 cm)-yellow, 10 flats (1 cm x 10 cm x 10 cm)-green, and 1 cube (10 cm x 10 cm x 10 cm)-blue.</li> <li>3) Comes in a sturdy plastic container with cover to accommodate all the items.</li> </ul>
3	<p>Beads, Ø16mm</p>	<p><b>Functional Specifications:</b> Used to reinforce counting, sorting, patterning and sequencing.</p>

	Quantity: 1,866	<p>Performance Specifications: Able to scaffold learners in counting and grouping of numbers, colors, patterns, etc.</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> <li>1) Bead Material: Plastic, spherical, smooth surface</li> <li>2) With a hole that passes through the center</li> <li>3) Bead diameter: 15 mm</li> <li>4) Assorted color, 5 colors consisting of 300 pieces</li> <li>5) Comes in a sturdy plastic transparent storage container with cover</li> <li>6) with undertaking</li> <li>7) Unbreakable when drop from a height of 1 meter</li> <li>8) Comes with nylon string of 5 meters long that fit loosely to beads hole</li> </ol>
4	<p>Blackboard Triangle, 30° x 60° and 45° x 45°  Quantity: 4,162</p>	<p>Functional Specifications: Used to demonstrate special triangles.</p> <p>Performance Specifications: Able to show relationship among sides and angles of special right triangles.</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> <li>1. Material: Sturdy plastic, smooth, not flexible and with handle</li> <li>2. Permanent graduation markings in cm in all sides</li> <li>3. For 30° x 60°: Base: 68 cm Thickness: 4 mm</li> <li>4. For 45° x 45°: Base: 59 cm Thickness: 4 mm</li> <li>5. Individually packed in a sturdy plastic bag with zip lock</li> <li>6. with undertaking</li> </ol>
5	<p>Circle Area Demonstrator  Quantity: 3,749</p>	<p>Functional Specifications: Used to demonstrate area of a circle.</p> <p>Performance Specifications: Performance: Able to show / demonstrate derivation of circle's area and how dimensions of a parallelogram is related to it.</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> <li>1. Material: Sturdy plastic</li> <li>2. Circle Diameter: 200 mm - Each half comes in Yellow and Red colors</li> </ol>



		<p>3. Thickness: 9 mm</p> <p>4. 16 sectors</p> <p>5. Comes with base for mounting the circle and the sectors.</p> <p>6. with undertaking</p>
6	<p>Compass, Drawing</p> <p>Quantity: 241,120</p>	<p>Functional Specifications: Used to draw/construct arcs, semi-circles and circles.</p> <p>Performance Specifications: Able to draw/construct arcs, semi-circles and circles.</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> <li>1. Compass, two legs, stainless steel;</li> <li>2. Length: 150mm;</li> <li>3. With pencil adaptor attached on one end of one of the legs. The adaptor adapts to pencils similar to Mongol #2.</li> <li>4. Stainless Steel Surface Finish: Well-polished and smooth;</li> <li>5. Comes with transparent plastic case or box; and</li> </ol>
7	<p>Cuisenaire Rods, set of 5</p> <p>Quantity: 3,749</p>	<p>Functional Specifications: Used to provide an interactive, hands-on way to explore mathematics and learn mathematical concepts, such as the four basic arithmetical operations, working with fractions and finding divisors.</p> <p>Performance Specifications: Able to demonstrate four fundamental operations, part-to-whole concept, decimals and other concepts related to number sense and measurement.</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> <li>1) Made of hard, smooth finish plastic materials.</li> <li>2) One (1) set is composed of 74 Cuisenaire rods of different colors.</li> <li>3) Each color represents a specific rod length.</li> <li>4) Rod Lengths are: 1cm -white, 2cm - red, 3cm - gray, 4cm - pink, 5cm - yellow, 6cm - green, 7cm - dark green, 8cm - brown, 9cm - blue, and 10cm - orange.</li> <li>5) Comes in a plastic storage container with cover that accommodates 5 sets of Cuisenaire rods.</li> <li>6) with undertaking</li> </ol>
8	<p>Elapsed Time (Clock) Set</p>	<p>Functional Specifications: Used to demonstrate time and other related concepts.</p>

	Quantity: 1,866	<p>Performance Specifications: Able to represent and demonstrate time using hour hand and minute hand.</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> <li>1. Made of durable plastic</li> <li>2. A set includes: <ol style="list-style-type: none"> <li>a. Two Twelve (12) hour demonstration clock, magnetic</li> <li>b. Segmented timeline, 24-hour timeline (AM and PM) which makes up of 4 segments</li> <li>c. Removable guide numbers</li> <li>d. Start and End arrows</li> </ol> </li> <li>3. Dial diameter measures 25 cm (<math>\pm 1</math>cm)</li> <li>4. The hour number is printed in Hindu Arabic numeral and with corresponding minute(s) number in the same numeral format.</li> <li>5. The item shall be free from toxic materials (with undertaking).</li> </ol>
9	Geoboard, 11 x 11 Quantity: 60,280	<p>Functional Specifications: Used to explore basic concepts in plane geometry such as perimeter, area and the characteristics of triangles and other polygons.</p> <p>Performance Specifications: Able to demonstrate or visually represent different kinds of polygons and circles and how to compute their respective area, perimeter, and circumference.</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> <li>1. Double sided geoboard - square pattern on one side (11 x 11), circle on the other;</li> <li>2. Made of sturdy plastic material; yellow</li> <li>3. The surfaces and edges must be smooth, no warps, must sits flat when laid on the table;</li> <li>4. Board Dimensions (W x L): 230 mm x 230 mm (minimum);</li> <li>5. Edging Height (all sides): 25 mm from the board;</li> <li>6. Board and Edging Thickness: 12.5 mm;</li> <li>7. Array Pin Diameter: 5 mm;</li> <li>8. Array Pin Height: 6mm;</li> <li>9. Comes with a transparent plastic case;</li> <li>10. Comes with Instruction Manual in English with illustrations;</li> <li>11. Comes with assorted size and color rubber bands (25 pcs);</li> </ol> <p>Functional Specifications: Used to explore basic concepts in plane geometry such as perimeter, area and the</p>
10	Geoboard, 5 x 5	<p>Functional Specifications: Used to explore basic concepts in plane geometry such as perimeter, area and the</p>

	<p>Quantity: 37,490</p>	<p>characteristics of triangles and other polygons</p> <p>Performance Specifications: Able to demonstrate or visually represent different kinds of polygons and circles and how to compute their respective area, perimeter, and circumference.</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> <li>1) Enables the students to perform different kinds of shapes (like square, triangle, circle, etc.) using rubber bands.</li> <li>2) On the top surface is the Square Geoboard with 25 guiding posts arranged 5 × 5 (forming a square) at 40mm distance apart between centers.</li> <li>3) On the bottom surface is the Circle Geoboard with 13 guiding posts. Twelve (12) of these guiding posts are arranged at 30° apart on a circle of 150mm diameter while the remaining one (1) guiding post is on the center of the said circle.</li> <li>4) Made of plastic, color blue.</li> <li>5) Board Dimensions (W × L): 200mm × 200mm (approximate)</li> <li>6) Guiding post approximate Diameter: 6mm</li> <li>7) Guiding post approximate Height: 22mm</li> <li>8) Approximate Height of the Base: 25mm</li> <li>9) Board Thickness: 6mm</li> <li>10) Comes with a plastic case with content description on its cover.</li> <li>11) The surfaces and edges of the Geoboard and its Case is smooth.</li> <li>12) Comes with Instruction Manual in English.</li> </ol> <p>Note: There is no warping of the board and base. The Geoboard must be flat when laid on a table.</p>
<p>11</p>	<p>Geostrips</p> <p>Quantity:30,140</p>	<p>Functional Specifications: Used to make and represent different shapes.</p> <p>Performance Specifications: Able to show/demonstrate different kinds of angles and shapes.</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> <li>1. The strips are made of plastic of 2 mm thickness and 18 mm wide in assorted colors with rounded ends;</li> <li>"2. lengths:       <ol style="list-style-type: none"> <li>a. Rod 1: 95mm</li> </ol> </li> </ol>

		<p>b. Rod 2: 125mm  c. Rod 3: 190mm  d. Rod 4: 220mm  e. Rod 5: 285mm  f. Rod 6: 330mm"</p> <p>3. Plastic snap-ons.  4. One (1) set consists of 68 strips, 100 pieces plastic snap-ons and a protractor.  6. The items shall be free from toxic materials. (with undertaking)</p>
12	<p>Ghost Grid Whiteboard, Mobile Magnetic, 72" x 40</p> <p>Quantity: 2,815</p>	<p>Functional Specifications: Used to aid classroom instructions especially in graphical representations such as linear, quadratic, polynomial, histogram, normal curve, etc.</p> <p>Performance Specifications: Able to move from one place to another and to clearly show illustrations that do not exceed from 1 meter vertically and 1.2m horizontally guided with lines with 20mm spacing (horizontally and vertically).</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> <li>1. Mobile Magnetic Ghost Grid Whiteboard;</li> <li>2. Material: Painted Steel</li> <li>3. Frame: Aluminum, 1" edging;</li> <li>4. Surface Material: Magnetic Painted Steel;</li> <li>5. Grid Pattern: 2" x 2", ghots grid;</li> <li>6. Full Dimensions: 74.5"W x 23"D x 69"H;</li> <li>7. Board Dimensions: 72"W x 40"H;</li> <li>8. Base Dimensions: 74.5"W x 23"D;</li> <li>9. Tray Style: Full length</li> <li>10. Casters: 4 pieces, 2-inch casters, two with locking brakes;</li> </ol>
13	<p>Linking Cubes</p> <p>Quantity: 18,745</p>	<p>Functional Specifications: Used to assist with the understanding of mathematical concepts</p> <p>Performance Specifications: Able to interlock together to build various shapes and structures</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> <li>1) Linking plastic cubes: <ol style="list-style-type: none"> <li>a. Dimension: 1 cm x 1 cm x 1 cm</li> <li>b. Material: Durable, smooth surface and edges, non-toxic plastic, and assorted colors (5 colors with 100 pieces per color)</li> </ol> </li> </ol>

		<p>c. With interlocking feature for connecting the cubes.</p> <p>2) Plastic transparent storage bucket with cover:</p> <p>a. Material: Durable, non-toxic (with undertaking), transparent plastic.</p> <p>3) Fitting is push fit which can be assembled or disassembled without extra effort</p>
14	<p>Model, Basic 3D Geometrical Collapsible</p> <p>Quantity: 9,415</p>	<p><b>Functional Specifications:</b> Used to demonstrate relational geometric concepts between polygons and polyhedrons; aid derivation of formula (surface area and volume) of polyhedrons.</p> <p><b>Performance Specifications:</b> Able to demonstrate geometrical relationships between polygons (2D) and polyhedrons (3D) in terms of deriving formula on surface area and volume.</p> <p><b>Design Specifications:</b></p> <p>1) Collapsible Basic 2D-3D Geometrical Solid Models include:</p> <p>a) Cube: 10cm x 10cm x 10cm</p> <p>b) Cone: Height = 10cm; Base diameter = 10cm</p> <p>c) Cylinder: Height = 10cm; Base diameter = 10cm</p> <p>d) Hexagonal prism: Height = 10cm; Length of sides (Base) = 5.20cm</p> <p>e) Hexagonal pyramid: Height = 10cm; Length of sides (Base) = 5.20cm</p> <p>f) Pentagonal prism: Height = 10cm; Length of sides (Base) = 6.27cm</p> <p>g) Pentagonal pyramid: Height = 10cm; Length of sides (Base) = 6.27cm</p> <p>h) Square prism: 10cm x 5cm x 5cm</p> <p>i) Square pyramid: Height = 10cm; Base diameter = 10cm</p> <p>j) Triangular prism: Height = 10cm; Length of sides (Base) = 10.35cm; and</p> <p>h) Triangular pyramid: Height = 10cm; Length of sides (Base) = 10.35cm</p> <p>2) Each solid is made of clear and durable plastic with rounded corners and edges, and 11 corresponding matching folding nets in 6 colours made from soft plastic that fits inside the solid.</p> <p>4) Comes with an activity guide.</p>

		<p>5) Comes with a sturdy plastic transparent storage container with cover that can accommodate all the solids and the activity guide.</p> <p>6) Must be free from toxic materials. (with undertaking)</p>
15	<p>Pattern Blocks, 250 pcs/set</p> <p>Quantity: 7,498</p>	<p>Functional Specifications: Used to explore mathematical concepts, including congruence, similarity, symmetry, area, perimeter, patterns, functions, fractions, and graphing</p> <p>Performance Specifications: Used to demonstrate different kinds of polygons.</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> <li>1. One (1) set of pattern blocks contains a total of 250 pieces of six geometrical shapes and six colors - 25 each of hexagons and squares; 50 each of trapezoids, triangles, parallelograms, and rhombi.</li> <li>2. Made of hard, smooth surface, solid plastic material</li> <li>3. Thickness: 5 mm</li> <li>4. Comes with a sturdy plastic transparent storage container with cover.</li> <li>5. The items shall be free from toxic materials. (with undertaking)</li> </ol>
16	<p>Pentominoes</p> <p>Quantity: 18,745</p>	<p>Functional Specifications: Used to develop spatial thinking</p> <p>Performance Specifications: Able to demonstrate concepts pertaining to perimeter and area using the 12 kinds of 5-sided geometric shape.</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> <li>1. Geometry puzzle consists of 12 pentominoes, each are made up of 5 equal-sided squares connected edge-to-edge. Dimension of square is 1" x 1".</li> <li>2. Twelve pentominoes are classified as the letters F, I, L, N, P, T, U, V, W, X, Y, and Z; each are made up of sturdy plastic. Comes in assorted colors that are free from toxic materials. (with undertaking)</li> <li>3. Comes in set of 6 equivalent to 72 pieces contained in a storage box.</li> </ol>
17	<p>Plastic Two-colored Counters, 1-inch diameter, 200 pcs/set</p>	<p>Functional Specifications: Used to represent integers and demonstrate fundamental operations on integers.</p> <p>Performance Specifications: Able to demonstrate/represent set of numbers, skip counting</p>

	Quantity: 9,330	and integers; perform fundamental operations on integers.  Design Specifications: 1) Material: Hard Plastic 2) 231 pieces; double-sided color (yellow and red) 3) Have smooth surface and edges 4) Chip's diameter: 25mm 5) Chip's thickness: 1mm 6) Comes with a transparent plastic container with cover
18	Probability Kit Quantity: 6,028	Functional Specifications: A set of mathematical manipulatives used to demonstrate different concept-formation activities in probability.  Performance Specifications: Able to demonstrate probability concepts using cards, counters, dice, spinners, coins, bills and/or combination of these mathematical manipulatives.  Design Specifications: 1. Demonstrate probability, random and selective sampling. 2. Class kit, at least 180 pcs in a box for large group or individual learning. Consist of the following: a) 24 combination of activities and teacher demonstration on cards b) 52 pcs (1 set) playing cards c) 9 pcs different spinners; d) 50 pcs coins; e) 12 pcs polyhedral number dice; f) 3 pcs dot dice; g) 20 two color counters or red and yellow chips; h) 2 pcs coin dice i) 8 pcs number dice 3. Come with storage container (carton) with cover.  Functional Specifications: Used to introduce spatial relationships  Performance Specifications: Able to use as an aid in developing mathematical concepts such as area, perimeter and patterns.  Design Specifications:
19	Tangram, set of 30 Quantity: 6,028	1) Tangram includes seven geometric shapes made up of five triangles (two small triangles, one medium triangle,

		<p>and two large triangles), a square, and a parallelogram that are distinct in color.</p> <p>2) The three different-size Tangram triangles are all similar, right isosceles triangles. Thus, the triangles all have angles of <math>45^\circ</math>, <math>45^\circ</math>, and <math>90^\circ</math>, and the corresponding sides of these triangles are proportional.</p> <p>3) All the angles of the Tangram pieces are multiples of <math>45^\circ</math> – that is, <math>45^\circ</math>, <math>90^\circ</math>, or <math>135^\circ</math>, and that the small Tangram triangle is the unit of measure that can be used to compare the areas of the Tangram pieces.</p> <p>4) Material: Durable plastic that are free from toxic materials. (with undertaking)</p> <p>5) The size of the largest square that the 7 tangram pieces can form is <math>115 \times 115</math> mm with thickness of 7mm.</p> <p>6) In this set, there is at least 6 distinct color in 7 pieces.</p> <p>6) Comes with a sturdy plastic that stores set of 30 tangram (210 pieces) and free from toxic materials. (with undertaking)</p>
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