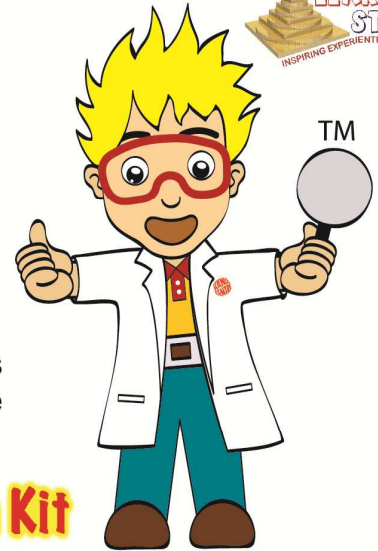


LET'S EXPLORE  
SCIENCE KITS

# Let's Explore

$$E=ms^2$$

Exploring and making Sense  
of Science



## MOE Syllabus

The guides are written by 2 retired principals, and tailored closely to MOE Singapore Primary Sch. Science Syllabus.

Science Centre Singapore specially designed experimental kits for students to explore Science facts in a fun way and make sense of the world around them.

## Electricity Kit



EMS201 - \$39.90

Suitable for primary school students, introducing basic concepts of electrical circuits, such as parallel and series circuits. Each component has jumper posts for easy connection with crocodile clips. Kit includes 4 battery holders, 4 bulb holders, 2 knife switches, 5 bulbs, 10 wires, each with a pair of crocodile clips, a buzzer, a DC motor, a variable resistor and square tiles to serve as insulators. The instruction guides contain 9 experiments.

## Magnetism Kit

Magnetism is always a fascinating and intriguing subject for young minds. This kit has 8 experiments from simple magnetic properties, to understand attraction and repulsion, to constructing a simple electromagnet. The kit contains all the necessary components to understand magnetism and magnetic properties. Among the special items include iron filing suspended in oil, encased inside an acrylic case and 3 metal discs (Iron, zinc and aluminium) to test magnetic properties.

EMS202 - \$39.90



## Chemistry Kit

Great value for money. Kit contains wide range of components. The labware includes set of 6 large test tubes with rack, 7 beakers, 2 measuring cylinders, petri dishes, soft pipette, specimen bottle, filter funnel, tweezers and many more. All of these are made of safe plastic and suitable even for young scientist. In addition, there are filter papers, litmus papers, pH paper, plasticine, thermometer, stopwatch, digital weighing scale 4 cubes of different materials and even glass crystals for filtration experiments. There are 14 experiments, including why object floats or sink, filtration, understanding acidity and many more. The kits does not include chemicals, rather it make use of common household items such as cooking oil, salt, egg...etc.

EMS203 - \$69.90



## 2 Booklets!

Each kit comes with 2 well-illustrated colourful instructions booklets. One for the young learner and another for the facilitator.



### CHEMISTRY Let's Explore Chemistry 1

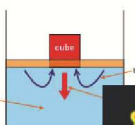
If you have four solid blocks of the same size and shape, made of plastic foam, plastic, zinc alloy or wood, which will float in water?

#### What Happens

The plastic foam cube and the wooden cube float, while the plastic and zinc alloy cubes sink to the bottom of the beaker.

#### Why This Happens

All matter or objects occupy space. When you drop one of the cubes into the beaker of water, the cube will occupy space in the water and will push away or displace an amount of water that is equal to the space or volume it takes up. The water that is originally occupying that space will try to push back, that is, the water will exert an upward force or upthrust on the cube.





**FIRST LAB KIT/  
COMPONENT**

Let's Explore

**My First Lab  
on  
Magnetism**

**Learning Outcomes:**

- Knowing what a magnet is
- Exploring magnetic attraction and repulsion
- Determining magnetic poles
- Having fun with marble and ring magnets

**EMS204 - \$15.90**



Let's Explore

**My First Lab  
on  
Electricity**

**Learning Outcomes:**

- Building simple electric circuits
- Using a switch in a circuit
- Exploring batteries in series and parallel
- Exploring bulbs in series and parallel
- Testing for conductors and insulators

**EMS205 - \$15.90**



First Lab Electricity and Magnetism are tailored to align with MOE Science Syllabus and adopt an inquiry based approach to learning Science. These kits are scaled down version of the Let's Explore series. The instruction guides were written by the same authors, Ms Chiang Wai Leng and Mdm Alice Aw, both of whom are experienced retired Science Educators. They were designed for students who may find the Let's Explore series overwhelming, or simply to give a good first introduction to young learners (even pre-schoolers) on Hands-On Learning in Science.

**Electricity Components**



These components are used in the Let's Explore and First Lab electricity kits. Each component has binding post to allow easy connectivity using wires with crocodile or U-connector. The other range are those with attached wires with crocodile clips at their end.

**Components with Binding Posts**

- |  |                  |
|--|------------------|
| <b>B291 - AA battery holder, Set of 15 pcs</b> | <b>- \$18.00</b> |
| <b>B292 - Bulb Holder Set of 15 pcs</b>        | <b>- \$18.00</b> |
| <b>B293 - Knife Switch - Set of 15 pcs</b>     | <b>- \$19.90</b> |
| <b>B294 - DC Motor, Set of 10 pcs</b>          | <b>- \$22.90</b> |
| <b>B295 - Buzzers, Set of 10 pcs</b>           | <b>- \$22.90</b> |

**Components w attached wires w croc clips**

- |  |                  |
|--|------------------|
| <b>B904 - Battery Holders, 2xAA, Set of 10</b> | <b>- \$18.90</b> |
| <b>B901 - Battery Holders, 2xD, Set of 10</b>  | <b>- \$24.90</b> |
| <b>B903 - Battery Holders, 4xD, Set of 10</b>  | <b>- \$29.90</b> |
| <b>B902 - 9V Battery Vlip, Set of 10</b>       | <b>- \$9.90</b>  |

**B296 - Wires 30cm w crocodile clips**

Set of 40 pcs

**- \$18.00**

**B297 - Wires, 30cm U connector,**

Set of 20 pcs

**- \$15.90**

**Magnets**

The magnets used in our kits are ceramic magnet (Ferrite). These magnets although more brittle, they do not rust and are more appealing. They are also lightweight and reasonable strong, suitable for use by young scientist, even the pre-school ones

**B298 - Bar Magnet - 56mm x 16mm x 4mm, Set of 20pcs**

**- \$18.90**

**B299 - Bar Magnet - 76mm x 18mm x 4mm, Set of 20pcs**

**- \$24.90**

**B261 - U-Magnet (60mm x 50mm x 6mm), Set of 20pcs**

**- \$28.90**

**B262 - Ring Magnet, (Dia 30mm) Set of 30**

**- \$21.90**

**B295 - Marble Magnet, Set of 50**

**- \$24.90**