



NEW HORIZON WORLD ACADEMY, KALYAN (W)
ACADEMIC YEAR 2026 -27
School Affiliation No. MA219

Date- 12th September, 2026

Circular No –NHWA/ACD 2026-27/ 52

“Everything is theoretically impossible, until it is done.” –

Robert A. Heinlein.

Dear Parents,

We are delighted to announce our upcoming Secondary School Science Exhibition—an exciting platform for our students to explore, innovate, and turn their ideas into reality –

SPARK

Where curiosity ignites Innovation.

For the higher grades, we encourage students to look beyond conventional models and explore Artificial Intelligence (AI), sustainable development, environmental conservation, e-waste management, renewable energy, water conservation, and other real-world challenges. The exhibition will provide them an opportunity to research, experiment, think critically, and create innovative solutions that connect science and technology with everyday life.

Our aim is to nurture curious minds, creative thinkers, and responsible young innovators who are ready to address the challenges of tomorrow.

We warmly invite you to encourage, guide, and motivate your child to participate enthusiastically. Your support can turn their curiosity into confidence and their ideas into meaningful innovations.

Let's inspire our young scientists to

THINK • EXPLORE • INNOVATE • CREATE
a smarter, greener and sustainable future!

PROJECT TOPICS BY GRADE LEVEL

To ensure projects are age-appropriate, we have broken down the themes for each group. Each student has to select any one topic out of the given: -

GRADE-WISE TOPIC LIST

Grade 6 — Foundations & Everyday Science

Topic	Category Theme	Focus Area
Simple machines in daily life (levers, pulleys)	Applied Physics	Force, motion and mechanical advantage through hands-on models
Water purification models	Sustainable Development & Environment	Filtration methods and safe drinking water access
Solar cooker / oven design	Energy & Renewable Systems	Solar energy capture and heat conservation
Plant growth under different light conditions	Health & Biotechnology	Photosynthesis and controlled-variable experimentation

Grade 7 — Environment & Energy

Topic	Category Theme	Focus Area
Rainwater harvesting models	Sustainable Development & Environment	Water conservation and catchment system design
Renewable vs non-renewable energy comparison with respect to advantages & health hazards	Energy & Renewable Systems	Comparative analysis of energy sources and sustainability
Composting and biodegradable waste	Sustainable Development & Environment	Decomposition process and waste management
Working models of Air pollution control system.	Sustainable Development & Environment	Model showing sources of air pollution & control measures.

Grade 8 — Science Behind Mobile Phones

Topic	Category Theme	Focus Area
How touchscreens sense your finger	Technology & Communication	Capacitive sensing and basic circuits
Battery waste & recycle	Technology & Communication	Chemical energy, battery materials, environmental impact and safe recycle
How cameras capture and process images	Technology & Communication	Light, lenses and image sensors
Signal travel: how calls/texts reach across the world	Technology & Communication	Electromagnetic waves and network transmission

Grade 9 — Modern Technology Integration

Topic	Category Theme	Focus Area
Air quality monitoring (low-cost sensors)	Sustainable Development & Environment	Pollution measurement and data logging basics
Smart agriculture (IoT-based soil moisture sensing)	AI, Robotics & Automation	IoT sensors and precision farming
Bioplastics from organic waste	Health & Biotechnology	Sustainable material science and biodegradability
Earthquake-resistant building models	Applied Physics	Structural engineering and seismic design

Grade 10 — Science of Modern Cities

Topic	Category Theme	Focus Area
Smart traffic management systems	Urban & Systems Science	Sensors, automation and flow optimization
Water/electricity distribution networks	Urban & Systems Science	Infrastructure systems and resource distribution
AI-based waste segregation concept models	AI, Robotics & Automation	Sensor-based sorting and automation concepts
Waste management and recycling technology	Urban & Systems Science	Waste processing and circular-economy design
Sustainable/green building design in cities	Urban & Systems Science	Energy-efficient architecture and urban sustainability

SAFETY & PRESENTATION RULES

Important Safety Note: No fire, sharp objects, dangerous chemicals may be used. Students can prepare a still model or working models but it must run on simple batteries instead of electricity.

Materials: We strongly encourage using recycled, eco-friendly, or household materials (cardboard boxes, used plastic bottles, old newspapers). Avoid expensive, pre-made store kits.

Independence: While parents can help, guide and assist with safety, the project should be largely the student's own work. Your child will need to explain their project in their own words!

Display: Every project must include a simple, neat yellow coloured chart paper with a red border to maintain uniformity. The content must be written neatly using black Sketch pens or CD marker for backdrop explaining the Title, Materials

used, and what we learned. Pictures depicting the model or idea can also be pasted on the chart paper with legible and clear font.

IMPORTANT TIMELINE

➤ **Submission of Topic: - 22nd September, 2026**

Students must submit the name of their project to their Class Teachers & Science Teachers for approval.

➤ **Project Review Check-in: - 30th September, 2026**

Teachers will check in on the progress in class. No need to bring the whole project—just a quick status update.

➤ **Final Project Submission: - 5th October, 2026**

All completed models and charts must be brought to school for setup and safety checks.

➤ **The Exhibition Day: - 10th October, 2026**

Parents are warmly invited to visit the stalls and encourage our young scientists. Detailed visiting hours by grade will follow.

SPECIAL NOTE FOR PARENTS

Participating student name (Full Name of the student should be correctly written in block letters) and the topic selected should be mentioned in the almanac with parent's signature for registration purpose.

Class teacher's acknowledgement for the same in the almanac will be considered as the confirmation for the registration.

REGISTRATION THROUGH ALMANAC IS
MANDATORY FOR PARTICIPATION.

Entries of INDIVIDUAL or GROUP OF 2-3 students are accepted for this exhibition. Kindly encourage and assist your child in preparing for this event at home. Practising in front of family members will greatly help build confidence.

You are kindly requested to guide and encourage your child to participate actively and prepare well for the activity.

Thank you for your continuous support in making learning a fun, real-world adventure for our children. We look forward to the enthusiastic participation of all our young learners. For any queries, please feel free to contact the class teacher through the school app or through a prior appointment.

**SAY NO TO PLASTIC AND THERMOCOL,
GO ECO-FRIENDLY.**

Best Regards,



Mrs. Bhawana Trivedi

Principal

New Horizon World Academy, Kalyan.

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