

GRADE 7 – LEARNING THROUGH INVENTION

SPRING BREAK ACTIVITY



Dear Parent

As part of the 'Cambridge Internal Assessment,' Merryland International School would like to provide an excellent platform for pupils to exhibit their talents in various subjects by participating enthusiastically in research and model making activities during this spring vacation.

Participation is compulsory as every child is expected to take part in at least 1 research of his/ her area of interest. The work will be marked for internal assessment and will also be on display for parents and important visitors.

All projects must be submitted on 10th April 2017

We request our dear parents to encourage your child to take active part in this activity as it helps develop writing, oral presentation, creative thinking, and problem solving skills.

Topics for Research

English

Futuristic Schools- Designing the technologically upgraded system of education
Designing- Health Pyramids

Science and Math

Finding an idea for the project can be the most difficult part. Some students spend more time looking for a topic than doing the actual experiment. Ideas for projects can come from many sources of the World Wide Web.

List of websites with topics and ideas

- <http://www.sciencekids.co.nz/projects.html>
- <http://www.scholastic.com/teachers/article/40-cool-science-experiments-web>
- http://www.scienceprojectresources.com/3rd_Grade_Science_Fair_Projects.asp
- <http://www.science-fair-guide.com/>
- <http://www.cool-science-projects.com/Science-Fair-Project-Ideas.html>
- <http://www.isd77.k12.mn.us/resources/cf/ideas.html>
- http://www.sciencebuddies.org/mentoring/register_guest.php 4.
<http://www.twingroves.district96.k12.il.us/ScienceInternet/GetStarted.html>
- <http://www.all-science-fair-projects.com/>
- Love Math? Math Projects <http://camel.math.ca/Education/mpsf/>
- Energy Quest Science Fair Projects
<http://www.energyquest.ca.gov/projects/index.html#chemical>

- Electrochemistry Experiments
http://www.funsci.com/fun3_en/electro/electro.htm

Working and static models for

Math:

Research: Transformation- Rotation, Reflection, Translation and Enlargement

Model Making: Any one of the transformation like Ferris Wheel.

Physics:

Research: UAE's Nuclear Power Plant

Model Making: Solar powered devices- like solar oven, solar cooker etc

Chemistry:

Research: Extraction of metals

Research – Indicators- Testing food

Model Making: Life cycle of Lime stone

Biology:

Research: Bio Diversity- Global warming, effects of climate change on bio diversity

Model Making: Different habitats (terrestrial or Marine or Desert or Grass land)

ICT:

Research: Mobile security (mobile threats, logging in, banking and shopping sites)

Model Making: Data encryption