

## **GRADE 6 - 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 10<sup>th</sup> 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**

- Journalism - Interviewing, news reporting, panel discussion and press conference- modeling a news room  
Pupils can be creative and innovative in presenting their own poems for display

##### **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.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](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](http://www.funsci.com/fun3_en/electro/electro.htm)

### **Working and static models for**

#### **Math:**

Ratio and proportions: **Research- Real life applications**

Working Model: Any topic for the working model

#### **Physics:**

Electricity - Models of Parallel and series circuit

Research- Sustainable energy and energy production in UAE

#### **Chemistry:**

Static model: Fractional Distillation of crude oil.

Research- New innovative idea for alternative fuel.

Chromatography- activity- separating colours from a dye.

#### **Biology:**

Model Making: Human organ system – Digestive or respiratory

Research – Organ disorders- cause, symptoms, cure and awareness.

#### **ICT:**

Activity: Developing Games using Scratch Programming

Research: Health and safety- Safety measures to prevent accidents and health issues using ICT equipment