

## **GRADE 4 – 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**

Poets and poetry

- Pupils should be creative and innovative in presenting their own poems for display.
- They can write an autobiography/biography as a famous poet, or
- Make a Diary entry as a poet.

##### **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)
- Neuroscience for Kids  
<http://faculty.washington.edu/chudler/experi.html>

**TOPIC OF RESEARCH:**

**PHYSICS:** Power Plant- Working Model or Static Model like a wind turbine, hydroelectric power plant, a miniature of Masdar city, etc.

**BIOLOGY:**

Cell as a factory- Comparing a living cell with a factory- Model

Skeleton- Skeletal system combines with muscular system to cause movement- Working model.

**CHEMISTRY:**

Investigate a solution for removing stains

Model making - compost plant or a recycling plant

**MATH:**

Real life application on decimals- Research

Model Making: Any mathematical topic of your choice

**ICT:**

Create a game of your choice using scratch application