CHEMISTRY HOLIDAY HOMEWORK -2018

YEAR 9 &10

"The syllabus emphasises an investigative approach to science, which is aimed at facilitating students in the development of skills, knowledge, understanding and attitudes that are appropriate in a society increasingly influenced by science and technology."

Investigation and research is an experience in which the student seeks information about a particular object, process or event in a manner that is not predetermined in either procedure or outcome. Such experiences can enable the student to observe phenomena, select and follow a line of enquiry, or conduct simple practical tests that may stimulate thought or discussion, thus leading to a clearer understanding of the facts or underlying principles. It should involve the student in following a logical pattern of questioning and decision making that enables evidence to be gathered in a similar way to that used by scientists.

Use your holidays fruitfully and complete any one of the following tasks.

1. Make a 3D model of **any one** of the following.

a. Diamond

b. Graphite

c. Ionic lattice of sodium chloride or potassium chloride

2. Investigate the effect of dissolved salt (sodium chloride) on the rate of rusting. [Write an experimental report of the investigation: Aim, apparatus, diagrams, procedure, equations,conlusions and website]

3. Electricity is a form of energy that students encounter every day. You can build your own circuit with basic materials using a lemon or potato to act as a battery. [Write an experimental report of the investigation: Aim, apparatus, diagrams, procedure, equations,conclusions and website]

4. Prepare any three home made indicators to show the presence of acid and alkali in some substances you use every day at home.
[Prepare a report, videos of what you have done. Include your reference website]

5. ***RESEARCH*** on any one of the recent developments that has taken place in the field of chemistry. Include a detailed procedure, images, conclusions and website.

HAPPY HOLIDAYS