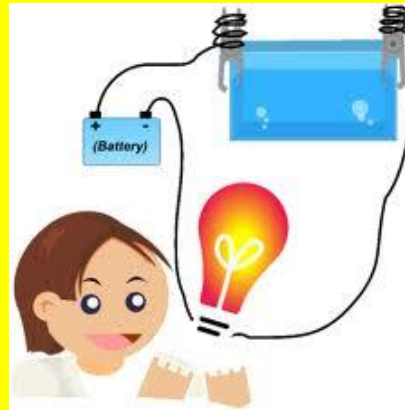


WELCOME SCIENTISTS!



ELECTRICITY EXPERIMENT

'Lighting up my life' (refer to activity sheet on tables)



PARKING LOT

On your table you will find a parking lot.

This is a tool for you to write all those burning questions you have!

We will endeavour to answer your questions at the end.



HISTORY OF THE GRANT

PLEASE WELCOME
DEB AND MICHELLE



WHAT IS SCIENCE?



Activity:

At your tables you'll find
A3 sheets

“What do you understand
Science to be?”



WHAT IS SCIENCE?



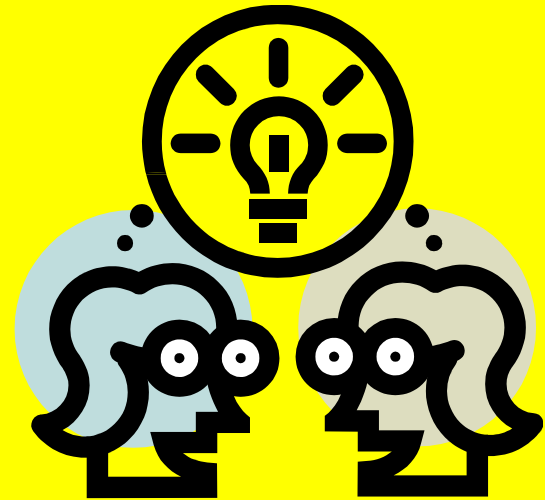
Science provides an empirical way of answering interesting and important questions about the biological, physical and technological world. The knowledge it produces has proven to be a reliable basis for action in our personal, social and economic lives. Science is a dynamic, collaborative and creative human endeavour arising from our desire to make sense of our world through exploring the unknown, investigating universal mysteries, making predictions and solving problems. Science aims to understand a large number of observations in terms of a much smaller number of broad principles. Science knowledge is contestable and is revised, refined and extended as new evidence arises.

WHY SCIENCE IN PRIMARY SCHOOLS IS IMPORTANT?

Activity:

BIG IDEAS Brainstorm!

What are the BIG IDEAS that science helps us to understand and develop informed decisions about?



WHY SCIENCE IN PRIMARY SCHOOLS IS IMPORTANT!

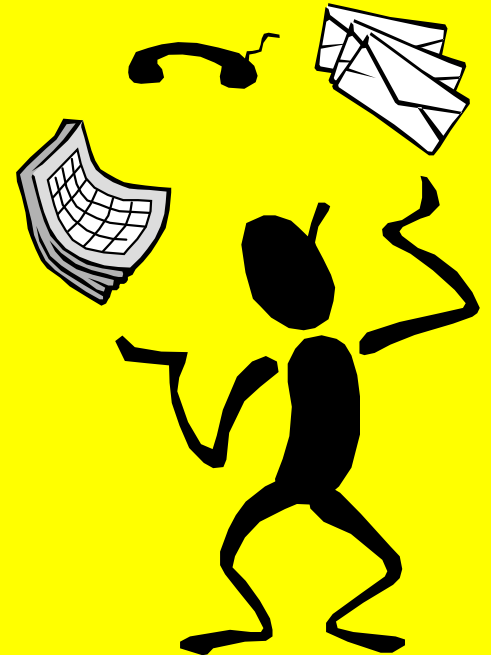
- Australia is below other countries in science and maths
- We are lacking in scientists, mathematicians and engineers!
- To develop a love for science
- Children choose early!



<http://www.youtube.com/watch?v=4SaXPOq8uuk>

SCIENCE SKILLS AND UNDERSTANDINGS

- **Questioning and prediction:** identifying and constructing questions, proposing hypotheses and suggesting possible outcomes
- **Planning and conducting:** Making decisions regarding how to investigate or solve a problem and carrying out an investigation, including the collection of data
- **Processing and Analysis data and information:** Representing data in meaningful and useful ways; identifying trends, patterns and relationships in data, and using this evidence to justify conclusions
- **Evaluating:** considering the quality of available evidence and the merit or significance of a claim, proposition or conclusion with reference to that evidence
- **Communicating:** Conveying information or ideas to others through appropriate representations, text types and modes



PRIMARY CONNECTIONS

- Inquiry based science curriculum resource
- Links the teaching of science and literacy
- Initiative of the Department of Education and the Australian Academy of Science
- Helps students develop deep learning and guides them to find scientific ways to answer their questions
- Biological, physical, chemical, earth and space



HOW WE WILL ASSESS?

- AusVELS
- Different types of assessment:
- Diagnostic
- Formative
- Summative
- SiSAT





SCIENCE AT THE PATCH PS



- Will commence in Term 2 week 2
- Starting with chemical science
- 1 hour per week
- Science Coordinator with classroom teacher
- Classroom teacher follow up during the week
- Integrate literacy, numeracy and investigations

OUR ROLE

- Working with students, staff, leadership and the community
- Building capacity of teachers
- Raising the profile of science
- Implementing a sustainable whole school approach
- Accumulating resources
- Providing support and guidance



WHAT WE HAVE BEEN UP TO!

- Continuing our training
- Vision for the school
- Resources
- Networking
- Pre tests
- Professional learning for staff and parents
- Working with leadership
- Planning, planning and planning!



OUR VISION FOR SCIENCE AT THE PATCH

- Raised profile of science at The Patch
- Improvement in student engagement and results
- Active science community e.g family science evenings, activities with other schools, family science challenges)
- Partnerships, networks and sponsorship
- Still here, still happening!



HOW YOU CAN HELP YOUR CHILD AT HOME

- Positive attitude towards science
- Encourage questioning
- Listen to their explanations and support them to discover for themselves
- Provide science texts
- Have FUN!



WATCH AND ENJOY



<http://www.youtube.com/watch?v=2olwZDsDwtI>

PARKING LOT – ANSWERS

USEFUL WEBSITES

Primary Connections: Linking science with literacy

<https://primaryconnections.org.au/>

Crafting Science experiences for Victorians – National Science Week

<http://www.re-science.org.au/>

AUSVELS – Science Curriculum

<http://ausvels.vcaa.vic.edu.au/Science/>

Amusement Park Physics

<http://www.learner.org/interactives/parkphysics/parkphysics.html>

Simple Machines Interactive Game

<http://www.edheads.org/activities/simple-machines/>

Museum Victoria

<http://museumvictoria.com.au/>

BBC School Science Clips

http://www.bbc.co.uk/schools/scienceclips/index_flash.shtml

THANK YOU!

