



Context & Problem-based Learning Resources

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Sterling Metal Enhancement

Analytical Chemistry in Precious Metal Recycling

IntelligenceMine
get access to about:

- 1000 Platinum properties
- 500 Platinum companies

Precious Metal Prices

	USD/oz	USD/100g	USD/10g
Gold	1,273.48	-1.57	
Silver	17.19	0.02	
Palladium	1,552.65	0.00	
Platinum	993.55	0.80	
Rhodium	520.00	0.00	
Iridium	675.00	0.00	
Pt/Pd Ratio	42.00	0.00	

KEY: TRADING / LAST CLOSE / DATA: BLOOMBERG

Platinum is worth \$1000+ per troy ounce. We are refining 10 kg at a time. If our analytical technique is reliable to $\pm 1\%$ How much difference in value lies in that $\pm 1\%$?

And what happens if we use two different techniques that give us different results?

Sterling Metal Enhancement Ltd
Context and Problem-based Learning in Analytical Chemistry

University of HUDDERSFIELD
Inspiring global professionals

The chemistry of energy: case study in context and problem-based learning

In association with The National HE STEM Programme

A recent geological survey has discovered potentially large quantities of the mineral bastnaesite in the hills of Northland

Why could this be significant for the energy resources of Northland?

UNIVERSITY OF LEICESTER

'A Sticky Situation'

Context-based Learning Exercise for Chemistry Students

Königsberg in the Mountains

Special Feature: Petra Head

Chemistry and food security - context and problem-based learning

Food fraud fear in Northland stores
Northland Guardian

Northland retailers have been left shocked by news that one of the main producers and distributors of processed meat products in Western Europe has been supplying beef products which may contain significant amounts of horse meat. The contaminated products were detected in products that MP Limited has produced and distributed for sale in an international chain of supermarkets which has branches in France, Belgium and Spain. The same company is one of the major suppliers of meat products to restaurants and supermarkets throughout Northland. The Northland government has demanded an investigation into a range of products to ascertain the extent of any possible fraudulent products which have reached Northland supermarkets. The news has caused concern amongst Northland's consumers and religious leaders...

Short Activities & 'Games'

Appendix E: Application process flowchart

Northland University want to do a project in Antarctica

Step 2: Independent peer review

Step 3: Applicant re-judgement

Initial operational support assessment

Do we cover the North biofuel crops or Solar

Königsberg

Special Features: Petra Head

Technology Stock Market Game

A Workshop for Young Companies

Developing Tech Start-ups is hard!

Northland Black Stock Exchange

Technology Stock Market Game

Bright Lights Inc. Project Management Game

Photo-reduction company: Bright Lights Inc. are working on a complex series of related projects

Complete all the tasks in the electronic number

Partnering Organisations

STEM AMBASSADORS

THE UNIVERSITY OF EDINBURGH

'Earth Sciences University Challenge'

SCIENCE IN THE REAL WORLD

SCHOOLS QUIZ

Commercial Skills for Chemists

5 Modules, 40+ separate resources, 25-30 credits

Learn Chemistry

Commercial Skills for Chemists: Introduction & Overview

For Guide

By Professor Colin Pugh, University of Edinburgh and Kevin Parker, KKI Associates Ltd

Commercial Skills for Chemists - Introduction and Overview

RSC Commercial Skills Modules

5 Modules, 40+ separate resources, 25-30 credits

Student comments included these: 'that was so much harder than a normal week' 'but it was so much fun!'

Potential Projects

Click here for a text only description with hyperlinks to each resource: http://www.kkitech.com/C_PBL_Summary.pdf