



LENNOX

Coursework B Investigations Junior Certificate 2011-2012

Candidates opting to carry out investigations nominated by the State Examinations Commission for the Coursework B component of the 2012 Junior Certificate Examinations of the New Science syllabi should present reports on **two** of the following three investigations in the relevant Reporting Booklet in accordance with the instructions in that booklet and the enclosed Circular S86/11

PLEASE FORWARD TO JUNIOR CERTIFICATE SCIENCE TEACHERS

Please note that due to very high demand nationally for materials for these investigations it is advisable to place orders as soon as possible as we can only guarantee supplies while stocks last.

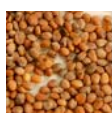
As these materials are specially ordered for these investigations, we cannot accept goods for return.

Biology

Investigate named seeds, chosen by you, to examine the effects of (a) placing the seeds in a fridge for a few days before sowing, (b) placing the seeds in a hot press for a few days before sowing on (i) the percentage of seeds that germinate, (ii) the speed of germination of the seeds.

Suggested Materials:		Cost	Qty
SM46695	Broad Bean Seed 250g (approx. 200 seeds)	€6.12	
SM46700	Radish Seeds 50g (approx. 5,000 seeds)	€5.72	
SM46626	Cress Seeds 100g (approx. 30,000 seeds)	€4.32	
APD100.45	Petri Dish Sterile Plastic 90mm diameter. Box/500	€34.40	
SS79000	Cotton Wool Absorbant 500g	€7.98	
AT69/114/3	Thermometer -10 to +110°C Red Spirit	€2.05	
or SRD85-2460	Thermometer, Digital -50 to +150°C c/w Max/Min Memory	€26.85	
or SF-L75723	Thermometer, Digital Waterproof -50 to +150°C	€7.95	

VAT extra at 23% - Carriage extra at cost (free on orders over €250 ex-VAT)



Please fill in quantities required above and Fax order to us at FAX No: 01 - 450 7906

Or post to:



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Chemistry

Investigate the amount of carbon dioxide stored in a fizzy drink when it is stored in (a) an open container, (b) a closed container, at different conditions of (i) temperature, (ii) stirring or shaking, (iii) time elapsed.

Suggested Materials:		Cost	Qty
SOH-TA502	Balance 500g x 0.01g (on investigation 100cm ³ of fizzy drink in an open container lost approx. 0.25g mass over 1.5 hours)	€259.00	
or SP-PS-2009	SPARKlink Interface c/w 1 x temperature sensor. Each	€154.00	
and SP-PS-2102	pH Sensor for above. Each	€92.00	
DataStudio Lite	Free 90-Day Full Featured Trial Version of DataStudio Software to download go to http://www.pasco.com/support/downloads/datastudio-update.cfm	FOC	
or SP-CI-6870	DataStudio Software Single User	€109.00	
SEDU-BOT0125	Specimen Bottle, PPR with screw cap 125cm ³ . Pack/10	€5.80	
or SEDU-BOT0250	Specimen Bottle, PPR with screw cap 250cm ³ . Pack/10	€8.40	
AT69/114/3	Thermometer -10 to +110C Red Spirit	€2.05	
or SRD85-2460	Thermometer, Digital -50 to +150C c/w Max/Min Memory	€26.85	
or SF-L75723	Thermometer, Digital Waterproof -50 to +150C	€7.95	

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Physics

Investigate the factors that determine the rate at which heat is lost from different types of drinking cups that contain hot liquid

Suggested Materials:		Cost	Qty
SP-PS-2009	USB Link Interface (links to PC & takes 1 x temperature sensor) Each	€154.00	
SP-PS-2125	Temperature Sensor -35 to +135C for above. Each	€33.95	
DataStudio Lite	Free 90-Day Full Featured Trial Version of DataStudio Software to download go to http://www.pasco.com/support/downloads/datastudio-update.cfm	FOC	
or SP-CI-6870	DataStudio Software Single User	€109.00	
SCUP-POLY	Polystyrene Drinking Cup 200cm ³ . Pack/100	€7.95	
SCUP-PLAS	Plastic Drinking Cup 200cm ³ . Pack/100	€3.95	
AT69/114/3	Thermometer -10 to +110C Red Spirit	€2.05	
or SRD85-2460	Thermometer, Digital -50 to +150C c/w Max/Min Memory	€26.85	
or SF-L75723	Thermometer, Digital Waterproof -50 to +150C	€7.95	

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