

Headstart Further Mathematics course

Background

Headstart is a well-established education programme whose aim is to encourage students interested in mathematics or science to consider technology-based careers, providing an opportunity for those in Year 12/S5 to spend up to a week at university prior to making their UCAS application.

This course will run from Monday 5th July (from 10am) to Thursday 8th July (at 3pm) and will expose students to intellectually stimulating mathematical challenges. Underpinning the whole school is the importance of proof and how this makes Mathematics different to the other scientific disciplines.

The course introduces Proof, Mathematical Perspective and Problem Solving for study. In addition, students will be exposed to some shorter topics, including infinity and rational numbers. There will be social activities in the evenings and a visit to a gallery where you will look at art from a different mathematical perspective.

Departmental staff will be available to offer advice on degree courses, university application procedures and career opportunities. The course also includes tours of the university and its facilities.

To apply, please complete the attached application form. The closing date is 19 February 2010.

We hope you find this opportunity of interest, please contact Headstart on 01707 871505 or e-mail enquiries@headstartcourses.org.uk for more information.



EXPERIENCE COURSES AT UNIVERSITY

INTRODUCTION –

WHO CAN APPLY?

Students in Yr 12 and Scottish Yr 5 who want to make an informed choice about reading for a technology-based degree at university. *Broad-based* courses provide information on several subjects, *Focus* courses concentrate on a single discipline, *Insight* courses are for girls only and *Science and Society* courses provide information on a range of Science subjects. If you are not a British subject, your application may take longer to review and the course charged at full cost (places are heavily subsidised). First preference is for those with British nationality. We do not guarantee to place every applicant.

HOW CAN HEADSTART HELP?

- by providing hands-on experience of real practical problems
- by identifying sources of funding and support
- by showing what it's like to study for a degree at university
- by helping you decide to which university you should apply

YOU APPLY FOR A PLACE by completing the application form. Successful applicants will be notified by Headstart in March and required then to pay the course fee of £220.

Places are allocated by Headstart. It may be possible to arrive early and stay at the university overnight, but Headstart representatives will not be on site until registration begins. If you need to arrive early, you must make arrangements direct with the Accommodation department of the university. Please note that not all universities are able to offer overnight accommodation the night before the course.

APPLICATION FORMS must be received by Headstart by 19 February of the course year. Dates may change so check the website in December. Any Offer of a Place will confirm dates and the university will provide Joining Instructions one month before the course starts. Offers are mailed to successful applicants during March of the course year.

YOU WILL BE REQUIRED TO PAY a course fee and travel costs there and back. Financial assistance may be available and some schools will help with the fee or travel costs. You should ask at school first.

PAYMENT IS NOT REQUIRED until we send an Offer. Then, send a cheque made payable to Headstart to the Headstart office at Welwyn Garden City or pay online at the Headstart website. If you require financial assistance, it is important to let us know when you apply by simply adding a note to your application. Call 01707 871505 for more information, or email Headstart.

Application Form for Maths Focus Course 2010 – PLEASE USE CAPITALS

THIS FORM COMPRISES 4 PAGES. PLEASE ENSURE THAT YOU COMPLETE ALL SECTIONS AND OBTAIN SIGNATURES FROM YOUR PARENT/GUARDIAN AND TEACHER THEN SEND ALL FOUR PAGES TO HEADSTART, THE WELTECH CENTRE, RIDGEWAY, WELWYN GARDEN CITY HERTS AL7 2AA BEFORE 19 FEBRUARY 2010. INCOMPLETE FORMS WILL NOT BE ACCEPTED.

Course content and dates at www.headstartcourses.org.uk

YOUR PERSONAL DETAILS

First Name: _____ Last Name: _____ Male / Female: _____

Date of Birth: _____ Nationality: _____ NI Number: _____

Home Tel: _____ Mobile: _____

Contact email: (important) _____

Home Address* _____
 _____ Post Code _____

School Name: _____

School Address _____
 _____ Post Code _____

*We will assume this is the address for correspondence advised otherwise.

YOUR GCSE OR SCOTTISH STANDARD EXAMINATION RESULTS

Examinations	No.	Subject	Grade	Subject	Grade	Subject	Grade
GCSE A* grades		Mathematics		Business Studies		History	
GCSE A grades		Physics		ICT		Modern Std	
GCSE B grades		Chemistry		English/Language		Computing	
GCSE C grades		Biology		English Literature		Bus. Mgmt	
Scottish SG grade 1		Double Science		French		Art, Design	
Scottish SG grade 2		Engineering		German		Other (list)	
Scottish SG grade 3		Design & Technology		Spanish			
		Economics		Geography			

Results of any other examinations taken prior to Year 12/S5 e.g. AS, GNVQ etc.

YOUR CURRENT AND PROPOSED STUDY PROGRAMME

Please tick [] if you are receiving Further Mathematics tuition through the Further Maths Support Programme.

Please tick in the 'A' column your current course subjects (GCE AS level, Scottish Highers) and tick in the 'B' column those subjects you think you will study in the following year (A2 or Advanced Higher)

Subject	A	B	Subject	A	B	Subject	A	B
Mathematics			Design & Technology			Spanish		
Further Maths			ICT			Modern Studies		
Physics			Economics			Computing		
Chemistry			English/Language			Business Management		
Biology			English Literature			Art and Design		
Electronics			French					
Business Studies			German					

Application Form 2010

Give subject details if studying for other qualifications such as Vocational A Levels, BTEC National Certificate/Diploma in Engineering, the International Baccalaureate, NVOs etc.

IN WHICH OF THE FOLLOWING AREAS DO YOU SEE YOUR FUTURE CAREER?

<input type="checkbox"/>	Business and Finance	<input type="checkbox"/>	Information Technology	<input type="checkbox"/>	Medical
<input type="checkbox"/>	Construction/Civil Engineering	<input type="checkbox"/>	Life Sciences	<input type="checkbox"/>	Military (specify arm)
<input type="checkbox"/>	Environmental/Science	<input type="checkbox"/>	Management	<input type="checkbox"/>	Technical Development
<input type="checkbox"/>	Industrial/Product Design	<input type="checkbox"/>	Manufacturing	<input type="checkbox"/>	Other (please describe)

DEGREE COURSE AT UNIVERSITY

Which degree subject are you most likely to read at University?

TWO ADULTS WE CAN CONTACT IN THE EVENT OF AN EMERGENCY

At least 1 of these contacts must be based in the United Kingdom for the duration of the Headstart course. All emergency contacts must be over 18 years of age. Parents, guardians, teachers and family friends are examples of suitable emergency contacts.

Name	Relationship	Contact telephone no.

Please specify any medical condition or dietary restrictions and include any special requirements that you may have (enter 'none' if not applicable)

Medical Condition: _____

Dietary Restrictions: _____

HAVE YOU TAKEN PART IN ANY OF THE FOLLOWING? (If yes, write which level in the box alongside)

Arkwright Scheme		Insight	
Dragonfly		Smallpeice Trust	
Engineering Education Scheme		Spectrum	
First Edition		The Duke of Edinburgh's Award Scheme	
Go4SET		Young Engineers Clubs	
Guides or Scouts			

WILL YOU BE THE FIRST IN YOUR FAMILY TO ENTER HIGHER EDUCATION? YES NO

YOUR ETHNIC ORIGIN (please tick relevant box – this is not necessarily the same as your nationality)

White	<input type="checkbox"/>	Black Caribbean	<input type="checkbox"/>	Black African	<input type="checkbox"/>	Black Other	<input type="checkbox"/>
Indian	<input type="checkbox"/>	Pakistani	<input type="checkbox"/>	Bangladeshi	<input type="checkbox"/>	Chinese	<input type="checkbox"/>

Other (Please Specify) _____

HOW YOU HEARD ABOUT US (please tick relevant box)

Teacher:	<input type="checkbox"/>	Website:	<input type="checkbox"/>	Friend:	<input type="checkbox"/>	Other (please specify): _____
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ANY OTHER INFORMATION YOU WISH TO ADD IN SUPPORT OF YOUR APPLICATION e.g. SF INTERESTS, WORK EXPERIENCE, HOBBIES, COMMUNITY WORK, ACHIEVEMENTS Page 2

DATA PROTECTION ACT

Tick the box if you do not wish your details to be passed to other universities and organisations that may be able to offer you related opportunities in Science, Engineering and Technology.

During the Headstart course, photographs may be taken of you and used to promote Headstart. Images will be carefully selected to portray students and courses positively.

Please tick the box if you do not give your consent for your photograph to be used.

APPLICANT DECLARATION

- I confirm that all this information is correct and that I have read and understood the Introduction page.
- I understand that I will be excluded from the course if my conduct is found to be unacceptable, if I fail to make a reasonable effort, or do not abide by the house rules of the university. I accept that drinking alcohol and taking stimulants or drugs of any kind (except on prescription) whilst participating in Headstart is strictly forbidden and that I must adhere to any smoking regulations made by the university.
- I understand that I am required to pay my travel expenses, in addition to the student fee.

Student Signature: _____ **Date:** _____

PARENT/CARER DECLARATION

I give my consent to this application and will support my son/daughter/ward in fulfilling the requirements of the above declaration. I understand that Headstart is responsible exclusively for the allocation of places, not the University.

Parent/Carer Name (Please print): _____

Parent/Carer Signature: _____ **Date:** _____

NOW GIVE THIS FORM TO YOUR HEAD OR TEACHER OF MATHS, SCIENCE, OR TECHNOLOGY

PLEASE INDICATE YOUR VIEW OF THIS STUDENTS INTEREST IN A TECHNOLOGICAL COURSE, AND POTENTIAL TO ACHIEVE A UNIVERSITY PLACE –	
<u>Interest</u>	<u>Potential</u>

Teacher Name (Please print) _____ **Email** _____

School / College Name _____ **Telephone** _____

Department _____ **Date** _____

WILL SCHOOL BE PAYING THE COURSE FEE? YES **NO**
(IT IS PAYABLE TO HEADSTART)

SCHOOL TYPE – PLEASE MARK ACCORDINGLY			
CTC Boys	<input type="checkbox"/>	Sixth Form College	<input type="checkbox"/>
CTC Girls	<input type="checkbox"/>	Maintained Non Selective Boys	<input type="checkbox"/>
CTC Mixed	<input type="checkbox"/>	Maintained Non Selective Girls	<input type="checkbox"/>
FE College	<input type="checkbox"/>	Maintained Non Selective Mixed	<input type="checkbox"/>
Independent Boys	<input type="checkbox"/>	Maintained Selective Boys	<input type="checkbox"/>
Independent Girls	<input type="checkbox"/>	Maintained Selective Girls	<input type="checkbox"/>
Independent Mixed	<input type="checkbox"/>	Maintained Selective Mixed	<input type="checkbox"/>
		Other (please state)	<input type="checkbox"/>
Are you a Specialist School? If so, what type? _____			

THANK YOU FOR COMPLETING THIS APPLICATION.

**NOW PLEASE ENSURE ALL 4 PAGES ARE RETURNED TO THE CENTRAL OFFICE AT:-
 HEADSTART, THE WELTECH CENTRE, RIDGEWAY, WELWYN GARDEN CITY, HERTFORDSHIRE AL7 2AA
 BEFORE 19 FEBRUARY 2010.**

INCOMPLETE FORMS OR FAXED FORMS WILL NOT BE ACCEPTED.

Tel: 01707 871505 Email helpline@headstartcourses.org.uk

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