

Continuous Professional Development **South Wales courses**

Further Maths Support Programme are pleased to be able to offer the following Professional Development opportunities in South Wales



A Level Maths

Unit 2 – Statistics

Course will cover the statistics in the new specification for A Level Maths and is aimed at teachers who have not taught statistics before or not for a long time.

Dates: **Weekdays March/April 2017** (see attached spreadsheet for dates)

Number of sessions: 4

Cost: free for state funded schools and colleges

Supply cover funding available

Unit 2 – Mechanics

Course will cover the mechanics in the new specification for A Level Maths and is aimed at teachers who have not taught Mechanics before or not for a long time.

Dates: **Weekdays March/April 2017**(see attached spreadsheet for dates)

Number of sessions: 4

Cost: free for state funded schools and colleges

Supply cover funding available

A Level Further Maths

Further Maths 3 (compulsory) – Mechanics

The course will give a comprehensive coverage of the new specification of mechanics and is aimed at teachers who currently deliver A Level Maths Mechanics and would like to teach Further Maths Mechanics.

Dates: Weekdays Feb, March and April (see attached spreadsheet for dates)

Number of sessions: 4

Cost: free for state funded schools and colleges

Supply cover funding is available

Further Maths 6 (optional unit) – Mechanics

The course will give a comprehensive coverage of the new specification of A Level Further Maths mechanics and is aimed at teachers who currently teach A Level Mechanics and would like to teach Further Maths Mechanics.

Dates: Weekdays Feb, March and April (see attached spreadsheet for dates)

Number of sessions: 4

Cost: free for state funded schools and colleges

Supply cover funding is available

One day courses

Solving Unusual Maths Problems and Sixth Term Examination Paper –

Teachers can attend either or both of the following session

How to teach Problem Solving - targeted at teachers of Key Stage 4 and 5.

Based on <http://nrich.maths.org/10218> and related NRICH resources, the workshop would challenge teachers to think about their own internal dialogue when solving problems and how to develop a similar dialogue in their students.

2 hour course - 10.00am – 12.00pm

Using the STEP Support Programme - this workshop would focus on the resources on our website <https://maths.org/step/> and look at how teachers can use the resources to support their students. It would tackle teacher and student confidence, including a look at Mechanics and Statistics.

2 hour course- 1.00pm – 3.00pm

Date: **Saturday 4th February 2017**

Duration: 4 hours

Cost: Free

Location: Swansea University



Integrated Technologies

The course will cover using graphical calculators for the delivery of Further Maths and applications of Geogebra for Further Maths topics.

Date: **Saturday 11th March 2017**

Duration **4 hours** Cost: **Free**

Location: **Cardiff University**



I would like to attend the following FMSP Professional Development course(s) in South Wales.

Hoffwn fynychu'r cwrs/cyrsiau Datblygiad Proffesiynol Parhaus canlynol yn Ne Cymru

<i>Professional Development Course(s) I would like to attend / DPP hoffwn fynychu</i>			
<i>Location (South Wales, North Wales, Mid Wales)</i>			
<i>Name / Enw</i>			
<i>Name of school/college / Enw'r ysgol/ coleg</i>			
<i>Welsh or English medium school / Ysgol gyfrwng Gymraeg neu Saesneg</i>			
<i>Which exam board does your school follow at A-level / Pa fwrdd arholi mae eich ysgol yn dilyn i Safon Uwch</i>			
<i>Email / Epost</i>			
<i>Address / Cyfeiriad</i>			
<i>Post code / Cod Post</i>			
<i>Telephone / Ffôn</i>			
<i>Signed / Arwyddwyd:</i>		<i>Date / Dyddiad:</i>	

Fees: Courses are offered free of charge to teachers in state-funded schools and colleges.

Application: To apply please complete the above table and return to Claire Musselwhite.

Further information: For more information and general enquiries please email: c.e.musselwhite@swansea.ac.uk

Datblygiad Proffesiynol Parhaus **Cyrsiau De Cymru**

Mae Rhaglen Gymorth Mathemateg Bellach yn falch o allu cynnig y cyfleoedd Datblygu Proffesiynol canlynol yn Ne Cymru



Mathemateg lefel A

Uned 2 – Ystadegaeth

Bydd y cwrs yn ymdrinag Ystadegaeth yn y fanyleb newydd ar gyfer Mathemateg Safon Uwch ac mae wedi'i anelu at athrawon nad ydynt wedi addysgu ystadegaeth o'r blaen neu heb wneud ers amser.

Dyddiad: Yn ystod yr wythnos mis Mawrth / Ebrill 2017 (gweler y daenlen atodedig ar gyfer dyddiadau)

Nifer o sesiynau: 4

Cost: am ddim i ysgolion a cholegau a ariennir gan y wladwriaeth

Mae cyllid athrawon cyflenwi ar gael

Uned 2 – Mecaneg

Bydd y cwrs yn cynnwys mecaneg yn y fanyleb newydd ar gyfer Mathemateg Safon Uwch ac mae wedi'i anelu at athrawon nad ydynt wedi addysgu Mecaneg o'r blaen neu heb wneud ers amser.

Dyddiad: Yn ystod yr wythnos mis Mawrth / Ebrill 2017 (gweler y daenlen atodedig ar gyfer dyddiadau)

Nifer o sesiynau: 4

Cost: am ddim i ysgolion a cholegau a ariennir gan y wladwriaeth

Mae cyllid athrawon cyflenwi ar gael

Mathemateg Bellach Lefel A

Mathemateg Bellach 3 (gorfodol) – Mecaneg

Mae'r y cwrs yn rhoi sylw cynhwysfawr i fanyleb newydd mecaneg ac wedi ei anelu at athrawon sydd ar hyn o bryd yn cyflwyno Mecaneg Mathemateg Lefel A a hoffai ddysgu Mecaneg Mathemateg Bellach.

Dyddiad: Yn ystod yr wythnos mis Chwefror, Mawrth ac Ebrill (gweler y daenlen atodedig ar gyfer dyddiadau)

Nifer o sesiynau: 4

Cost: am ddim i ysgolion a cholegau a ariennir gan y wladwriaeth

Mae cyllid athrawon cyflenwi ar gael

Mathemateg Bellach 6 (uned ddewisol) – Mecaneg

Mae'r cwrs yn rhoi sylw cynhwysfawr i fanyleb newydd mecaneg Mathemateg Bellach Lefel A ac wedi'i anelu at athrawon sydd yn addysgu Mecaneg Lefel A ar hyn o bryd ac sy'n awyddus i ddysgu Mecaneg Mathemateg Bellach

Dyddiad: Yn ystod yr wythnos mis Chwefror, Mawrth ac Ebrill (gweler y daenlen atodedig ar gyfer dyddiadau)

Nifer o sesiynau: 4

Cost: am ddim i ysgolion a cholegau a ariennir gan y wladwriaeth

Mae cyllid athrawon cyflenwi ar gael

Cyrsiau Undydd

Datrys Problemau Anarferol Mathemateg a STEP

Gall athrawon fynychu naill neu'r llall neu'r ddau sesiwn.

Sut i addysgu Datrys Problemau – wedi ei dargedu at athrawon Cyfnod Allweddol 4 a 5. Yn seiliedig ar <http://nrich.maths.org/10218> ac adnoddau NRICH cysylltiedig, bydd y gweithdy yn herio athrawon i feddwl am eu deialog mewnol eu hunain wrth ddatrys problemau a sut i ddatblygu deialog tebyg yn eu myfyrwyr.

Cwrs 2 awr - 10.00am – 12.00pm

Defnyddio'r Rhaglen Cymorth STEP - Bydd y gweithdy hwn yn canolbwyntio ar yr adnoddau ar ein gwefan <https://maths.org/step/> ac yn edrych ar sut y gall athrawon ddefnyddio'r adnoddau i gefnogi eu myfyrwyr. Bydd yn mynd i'r afael â hyder yr athro a'r myfyrwyr, gan gynnwys edrych ar Fecaneg ac Ystadegaeth.

Cwrs 2 awr- 1.00pm – 3.00pm

Dyddiad: **Dydd Sadwrn 4 Chwefror 2017**

Hyd: 4 awr

Cost: Am ddim

Lleoliad: Prifysgol Abertawe



Technolegau Integredig

Bydd y cwrs yn delio gyda defnyddio cyfrifianellau graffigol ar gyfer darparu Mathemateg Bellach a Geogebra ar gyfer pynciau Mathemateg Bellach.

Dyddiad: **Dydd Sadwrn 11 Mawrth 2017**

Hyd 4 awr

Cost: Am ddim

Lleoliad: Prifysgol Caerdydd



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Ne Cymru

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<i>Post code / Cod Post</i>			
<i>Telephone / Ffôn</i>			
<i>Signed / Arwyddwyd:</i>		<i>Date / Dyddiad:</i>	

Ffioedd: Cynigir cyrsiau yn rhad ac am ddim i athrawon mewn ysgolion a cholegau a
ariennir gan y wladwriaeth.

Cais: I wneud cais, llenwch y tabl uchod a dychwelyd at Claire Musselwhite.

Rhagor o wybodaeth: I gael rhagor o wybodaeth ac ymholiadau cyffredinol, e-
bostiwrch: c.e.musselwhite@swansea.ac.uk