

learner - family - community  
Centred Education



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# Unifiedknowledge Courses

for families, children, parents,  
adults & professionals in education

2020+

Liberal Arts education from  
an African place of Being

**STEAM'd uP learning:**

- Science
- Technology
- Engineering
- the Arts
- Maths

**blackopenuniversity.eu**  
abundancecentres.org



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**Black Open  
university**

Liberal Arts education from  
an African place of Being

# Principal message: ሐሺግ

Welcome to our revised prospectus launched as we implement special measures, ready for the upcoming Summer & Autumn season of 2020. The new cycle's collection of **specialist cultural arts** and STEM classes is truly exceptional. **STEM – science, Technology, Engineering and Maths**; learn them in a unified, personalised and natural way, @uLearnNaturally. ሐሺግ Hashima (most respectful greetings).

The pilot phase of our **Level Being 9** provision for the full time children's education was a great success, Enrolment for September 2020 is **now open**. Our Level Being 9 learning programme represents great futures for **family directed learning** (community owned education) in the black communities (and beyond). Find out why through this prospectus and the related media.

Due to popular demand we are responding to the call for **Dankira Tehwagi** classes, that's **African Warrior Dance** learning (by special arrangement). In the practice we bring you ancient and classical **African martial cultural arts & science** with dance at the centre and heights of the joy you will also learn **binary drumming** for rich communication through music. The practice is **yogic**, involving **mind-breath-body harmonisation**. There are **many dimensions** to the Dankira Tehwagi practice, view this video (<https://www.youtube.com/watch?v=lpmEjFbNB-c>) to feel out the basic curricula and vibes of the first learning cycles. Do you have a sense that your **freedom of expression** is restricted, locked down? In the practice of Dankira Tehwagi you will find **your personal keys to the Way**.

If you are involved in education or simply need to recover your true learning flow then why not enrol in our **Educating with Unifiedknowledge** course. Through your completion of this foundational learning you will learn better ways to approach education (the bringing out of inner knowledge) from an African place of being. This course is a must for family **leaders** (parents) who are determined to keep, recover and/or correctly build on the **brilliance** of One's children. It is also a must for **teachers** and those professionally involved in education and learning in our communities.

The **Black Open University** has an established **fully functional elearning space** and so with in this prospectus are a range of **Go Deep Short Courses**, each very unique and we hope intriguing for you. Try something new, step confidently outside the box, enrol in some of these short courses today.

Our tradition is to always work in small groups, giving very high quality personal attention to each member's learning. For this reason most courses have a limited amount of learner places. If you have questions, and I hope you do, please be free to call me directly to reason and explore the Way.

Perfect your active learning abilities, choose and move, enhance the flow.

Htp (perfect peace)

**Astehmari Batekun**  
*Principal*

**Black Open University**  
Abundance Centres (UK)  
280 St Ann's Road,  
London N15 5BN

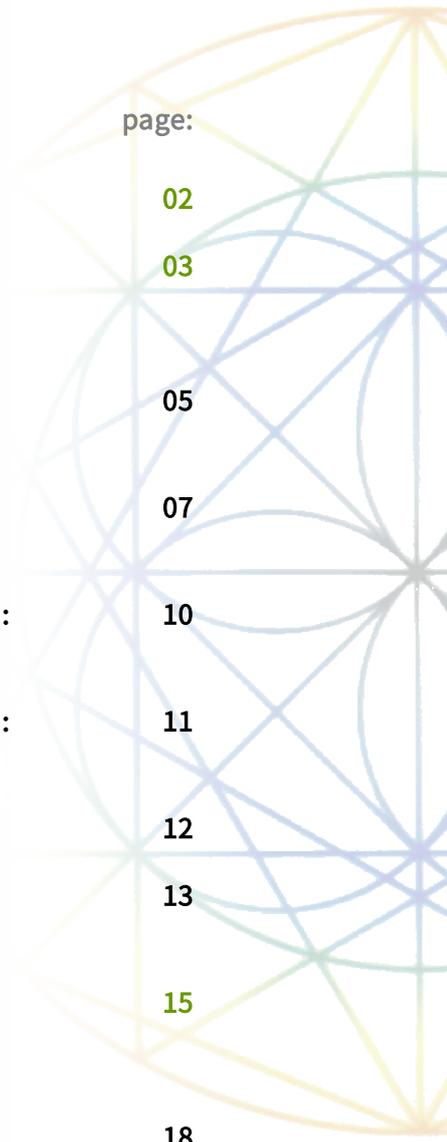
**Direct:** 07530038547  
**Office:** 02088153939  
**eMail:** [learning@blackopenuniversity.eu](mailto:learning@blackopenuniversity.eu)  
**Twitter:** @BlackOpenUni and @uLearnNaturally  
**Instagram:** @BlackOpenUniversity  
**WhatsApp:** 07930501777 (@TheFuturist)  
**WhatsApp Updates Forum:** <https://blackopenuniversity.eu/sm/wa/bou-updates>  
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 PERT EM HERU  
 BECOME DEEPLY  
 CONSCIOUS



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# Personalised Courses

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All of our Small Group - Face to Face Courses are fully integrated with our e-learning space; <https://blackopenuniversity.eu/moodle>

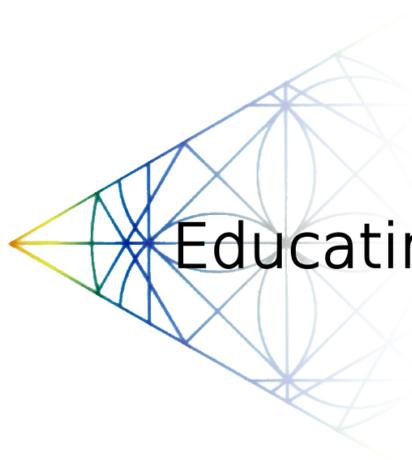


# Educating with Unifiedknowledge: Foundation Course One & Two

Educating with Unifiedknowledge introduces an approach to learning where maths, culture, art, nature and science are explored in ways that make education properly connected to classical and contemporary African (Black) culture. The course defines the culture and objectives of the pedagogy (the approach to learning). Then explores its principles (guiding ideas), processes (ways of working) and protocols (codes of conduct & etiquette).

You will gain a rich insight to each of these points and the oversight of how they interrelate with each other.

A full bullet point summary is presented at the Abundance Centres (UK) website: Unifiedknowledge Pedagogy



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## Educating with Unifiedknowledge Foundation Course One

<b>CODE:</b> EWU-FC1	<b>HRS:</b> 2h	<b>WKS:</b> 11 of 13	<b>DAY:</b> Mondays	<b>TIME:</b> 18:30	<b>FEE:</b> £234
<b>WEB:</b>	<a href="http://www.abundancecentre.org/pedagogy">www.abundancecentre.org/pedagogy</a>				

## Our educational pedagogy

### የጥምር ዕውቀት

yeht'mr urwuk'eht

The unifiedknowledge Approach to Education

~ The Basic Bullet Point Summary ~

The most concise way to summarise the unifiedknowledge approach to education is to view the key elements through three sections:

1. - Culture
2. - Objectives
3. - Principles, Processes & Protocols of Practice

#### 1. Culture

The cultural basis of yeht'mr urwuk'eht (unifiedknowledge) is:

- 1) Pan-African አልኬብላን
- 2) Kemetic (classical references) ክምት

#### 2. Objectives

The main objectives of yeht'mr urwuk'eht (unifiedknowledge) are the development of:

- 1) Peace (love - fk'r ፍቅር, well-being)
- 2) The Mind's Core
  - Consciousness
  - Will
  - Communications
  - Creativity
- 3) Principled Living ( ማእት)
- 4) Productive Capacity
- 5) Healthful Space
- 6) Humanity Overstood

#### 3. Principles, Processes & Protocols of Practice

The principles, processes and protocols of the yeht'mr urwuk'eht (unifiedknowledge) practice are:

- 1) Hashima ሐሺማ  
respectful ways with a sense of truth, justice, order and right – maat at the nucleus.
- 2) Maat ማእት:  
Universal Orders, Natural Orders & Human Social Orders (ethics)
- 3) Maat ማእት:  
Hisab (Mathematics)
- 4) Tehwagi Asab የተዋጊ አሳብ (The Warrior Idea) for contemplation and points of agreement.
- 5) Gzat ግዛት (Province)  
province is space; [land, air & mind] in [personal, family, community, national, earth (planet) & universal domains]
- 6) Harmony with Nature
- 7) Mind, Body & Breath Harmonies  
*consciously applied forms such as dance, sports, yoga, martial arts etc.*
- 8) The unifiedknowledge Language ቋንቋ
- 9) Curriculum, Graduations & Accreditation
- 10) The Story

The above bullet points give the complete concise overview to our approach to education (our 1<sup>st</sup> nominated educational pedagogy)



# Hair Structures

## & the Alpha Helix Design

### Hair Structure Science & the Alpha Helix Design

Learn the science of hair structures through

This course uses our custom designed Hair Structure Science - Poster Sheet 1 to go deeply into the biological structures in hair from the root to the elemental level. The unique laminated poster is supplied with the course.

ENROL NOW

Watch this intro video for a taster: <https://youtu.be/aw3iRKDY5yY>

Units of Learning: Introduction to course and Unifiedknowledge, [0] Water, [1] Three Classic Questions: Number, Measure & Ratio, [2] Exponents and the Unit of Power, [3] Reciprocal, [4] Logarithm, Going inside 1 Metre – prepare for advance visualisation, Detailed cross section of skin and hair structures (African coil), Hair coil strength principles, Keratin protein, Polypeptide backbone structure, Amino Acids, Five key elements, Sub atomic elements, iconic metaphor, Periodic Table – spiral form, [5] Ions, [6] Water's self-ionisation process, [7] Isotopes, [8] pH (the Acid : Base ratio), [9] The Mole, Organic apple cider vinegar treatment idea, The Science of Hair Damage, Surfactants, Shampoos & Conditioners, The effect of Oils on Human Hair, African Hair And Curly Hair, Hair Strength, Cosmetics for thin Hair, Washing and Grooming Procedures, Hair Straighteners, Damage by Heat, Hair Dyes, Summary of powers to be gained by these studies areas.

**CODE:**  
HSS-FC1

**HRS:**  
2h

**WKS:**  
11 of 13

**DAY:**  
Tuesdays

**TIME:**  
18:30

**FEE:**  
£234

**WEB:** [www.abundancecentre.org/hairscience](http://www.abundancecentre.org/hairscience)

STEM  
+ Art  
STEAM

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k'u.t'.r

Number is a *TOOL*  
of perception.

ልክ  
l.k

Measure is a *PROCESS*  
of comparing relative size.

ክፍል  
k.f.l

Ratio is *RULE*  
of relationship

ቁጥር  
k'u.t'.r

ልክ  
l.k

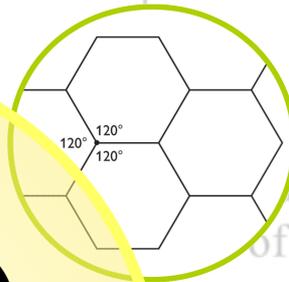
ክፍል  
k.f.l

Number is a *TOOL*  
of perception

Ratio is *RULE*  
of relationship

level  
being **9**

uLearn  
Naturally  
mathematics



level being **9**  
uLearn Naturally  
mathematics

the best.  
the highest possible level.

Black Open University  
Classes open to all  
@uLearnNaturally

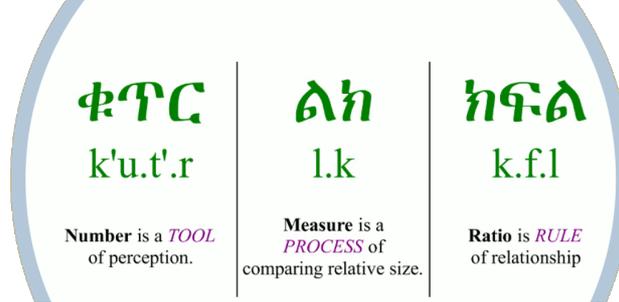
Tel: 020 8815 3939  
Principal: 079 3050 1777

Full & Part-time  
NEW SERVICE OPTIONS:  
Children can attend 1, 2, 3  
or 4 days per week  
+ after-school classes.

Reach to  
and Big Ideas

Particular  
ing 9:

A hand holding a ball-and-stick molecular model, likely representing a complex chemical structure. The model is black, white, and red.



## Level Being 9 - uLearn Naturally GCSE: Preparations for Mastery

This is a STEAM learning programme, that's STEM plus the Arts. Science, Technology, Engineering, the Art and Maths. All learning is done in the context of highly creative and enjoyable cultural arts.

uLearn Naturally (Unifiedknowledge) practice treats mathematics as a central and critical subject to all others, it is "the study and application of patterns".

We recognise three classically African fundamental ideas of maths, they are Number (ቁጥር), Measure (ልክ) and Ratio (ክፍል). Through this course we firstly secure basic consciousness and competence with these as part of our primary process of simplification.

Studying contemporary methods of teaching mathematics we further work with 21 additional "Big Ideas" of mathematical thought and practice.

Read the full course introduction. Topics Covered: Overstanding the integration of Classic Ideas and Big Ideas, Learning to Learn, Number (ቁጥር), Measure (ልክ), Ratio (ክፍል), Overstanding Big Ideas of Mathematics. These are simplified through creative cultural arts; drumming, dance, drama, language, drawing, song etc.

All learning is done in the context of highly creative and enjoyable cultural arts. For children aged from 5 to 19 years.



<b>CODE:</b> LB9-PfM	<b>HRS:</b> 1h 30m	<b>WKS:</b> 11 of 13	<b>DAY:</b> Mon & Tue	<b>TIME:</b> 16:45	<b>FEE:</b> Plan A See page 12
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**WEB:** [www.abundancecentre.org/levelbeing9](http://www.abundancecentre.org/levelbeing9)



## Level Being 9 - uLearn Naturally GCSE: Mastery

This is a STEAM learning programme, that's STEM plus the Arts. Science, Technology, Engineering, the Art and Maths. All learning is done in the context of highly creative and enjoyable cultural arts.

Our educational Trust has developed a two year uLearn Naturally (Unifiedknowledge) learning programme of focused FULL TIME EDUCATION to attain beyond Level 9 GCSE mathematical consciousness and competence. Including preparation and entry into nationally accredited GCSE examinations in Maths. The tuition and learning is creative, integrated and unified; STEAM (STEM + the Arts). Children aged from 8 years + can be enrolled and the course can be spread from 4 to 1 full days per week.

Download the full prospectus for full details. Topics Covered: Overstanding the integration of Classic Ideas, Big Ideas and the AQA Specification, Scheme of Work - Term to Lesson Planning, Number (in AQA), Algebra (in AQA), Ratio, Proportion and Rates of Change (in AQA), Geometry and Measures (in AQA), Probability (in AQA), Statistics (in AQA), Assessing Unifiedknowledge Practice Levels, Prepared for AQA assessment (GCSE), After the Graduation, preparing for the next Level. This course contains the foundational learning of the "Preparations for Mastery" course. See page 10.



<b>CODE:</b> LB9-M	<b>HRS:</b> 4.5h of 6h per day	<b>WKS:</b> 11 of 13 Sept 2020	<b>DAY:</b> 1-4 days per wk	<b>TIME:</b> 10:00	<b>FEE:</b> Plan B See page 12
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**WEB:** [www.abundancecentre.org/levelbeing9](http://www.abundancecentre.org/levelbeing9)

## Fee Plan A: see page 10 for Level Being 9 – Preparations for Mastery

Fees & payment options: Payments are required in advance. <b>This provision is subject to a Quota 9 requirement, please contact us for details.</b>	<i>1 class per week; 9 classes per 3 mth term:</i>	<i>2 classes per week; 18 classes per 3 mth term:</i>
	_____	_____
1) Full quarterly fee (by direct debit):	£72.00	£136.00
2) Monthly instalments (by 3 direct debits):	£28.00	£49.00

## Fee Plan B: see page 11 for Level Being 9 – Mastery

Service options, learning objectives and fees: regarding the Level Being 9 uLearn Naturally GCSE Maths programme please see an overview of the basic logistics and fee requirements below:

- **4 days per week service level:** In this case the quarterly fee is **£3,978.00**. We will work for Level 9, aiming to be ready for external (AQA) assessment of the learner in **two years**.
- **3 days per week service level:** In this case the quarterly fee is **£3,378.96**. We will work for Level 9, aiming to be ready for external (AQA) assessment of the learner in **two and a half years**.
- **2 days per week service level:** In this case the quarterly fee is **£2,592.72**. We will work for Level 9, aiming to be ready for external (AQA) assessment of the learner in **three years**.
- **1 day per week service level:** In this case the quarterly fee is **£1,806.48**. We will work for Level 9, aiming to be ready for external (AQA) assessment of the learner in **four years**.

We will be working to the objective of total GCSE Maths competence and consciousness at the “Higher Tier” – we will work for Level 9. Our typical day will be 6 hours of which there will be 4.5 hours of “Masterclass” time. There will be 44 weeks per year, made up of 4 quarterly terms of 11 weeks each).

**There is a separate dedicated Level Being 9 Mastery prospectus, get it now from [www.abundancecentres.org/levelbeing9](http://www.abundancecentres.org/levelbeing9)**

**ENROL NOW**



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**AFRICAN WARRIOR DANCE**

MARTIAL ARTS & SCIENCE | PEACE, POWER & WISDOM

MIND - BREATH - BODY HARMONIES

# **DANKIRA TEHWAGI**

**AFRICAN WARRIOR DANCE**

NEW CLASSES FOR ADULTS COMING SOON  
CHESTNUTS COMMUNITY CENTRE @N15 5BN

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OR REQUEST MORE INFO.

[DANCE@ULEARNNATURALLY.ORG](mailto:DANCE@ULEARNNATURALLY.ORG)

OFFICE TEL: 020 8815 3939  
WHATSAPP: 079 3050 1777



# Dankira Tehwagi African Warrior Dance

Dankira Tehwagi is a very unique artform. From ancient times to now this kind of cultural arts practice has been and is for total being development. It is in the traditions panAfrica that “the Arts” and “the Science” are learnt organically in unified form. The practice of Dankira Tehwagi is a very powerful cultural arts and science learning.

A few words here will not convey the essence, even seeing it is not enough, being in practice is the only way to begin to know and access the joy, the freedom. We have produced this video as a taster : <https://www.youtube.com/watch?v=lpmEjFbNB-c>.

If you watch it and find sustained or more interest then be free to contact the Principal teacher for more details. These are adult classes, no previous experience is required. If you have fitness then that is fine, if you do not then you will gain it. The Way is organic. Our objective is leadership and community development + relaxation and joy in play.



**CODE:** TEHWAGI      **HRS:** 2h      **WKS:** 11 of 13      **DAY:** tbc      **TIME:** tbc      **FEE:** £234

**WEB:** [www.abundancecentre.org/dankira](http://www.abundancecentre.org/dankira)

# Special Projects & Cooperatives



The **Black Open University** is preparing to send a CubeSat (mini satellite) into space. Welcome to the **Triple Darkness Space Probe** project. It will carry messages from Pan-Africa and we will experiment with power systems using synthetic melanin powered batteries. We want YOU, your family and the whole community of interest to get involved and add to the project brief and plan. Projects like this are used to help facilitate maths and science (STEM) learning for our cadets.

GET MORE INFO:

[www.abundancecentre.org/spaceprobe](http://www.abundancecentre.org/spaceprobe)



**uLearn Naturally Media Services** is administered by **Abundance Centres (UK)**. We are the publishers of **The Futurist** (Haringey), you can find out more about our other media services here; [futuristSTEAM.co.uk](http://futuristSTEAM.co.uk) and [uLearnNaturally.org](http://uLearnNaturally.org).

We are established to work with centres throughout the UK building ground breaking media service provisions that are designed to support **Home-School Knowledge Exchange (HSKE)** principles and projects.



We define “schools” in a very broad way as “**centres of determined learning**” including for example libraries, youth provision, learning projects/events, children's centres, primary and secondary schools etc. With these “centres of determined learning” uLearn Naturally Media Services seeks to create community led infrastructure that allows learning processes and networks to flow in more innovative and effective ways thereby raising learning outcomes and impacts. There are two main media service operations being developed:

- [Podspace for podcasts](#)
- [Live broadcasts](#)
- [uLearn on Tunein.com](#)

- **uLearn Naturally Radio** - (internet radio)
- **The Futurist** - STEAM'd uP3 magazines and publications (localised, in-print and digital)

GET MORE INFO, GET INVOLVED:

[www.futuriststeam.co.uk](http://www.futuriststeam.co.uk)

*project management associates:*

**PEOPLESCIENCE  
INTELLIGENCE UNIT**



www.

**MyLocalLotto**

.co.uk

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[courses@blackopenuniversity.eu](mailto:courses@blackopenuniversity.eu)

**Abundance Centres (Haringey)  
Development Trust**

New educational cooperative

- inviting local membership
- now recruiting volunteers for several interesting projects

Get More Info:

[abundancecentre.org/member-trust-haringey.html](http://abundancecentre.org/member-trust-haringey.html)



# Go Deep Short eCourses

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Fear is the Mind Killer

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Overstanding the Warrior's Province

**Abit and the Point of Origin:** 21

What is Number?

**Ngd Zehde TaJaBa Guidance:** 22

help with wholistic business/venture planning

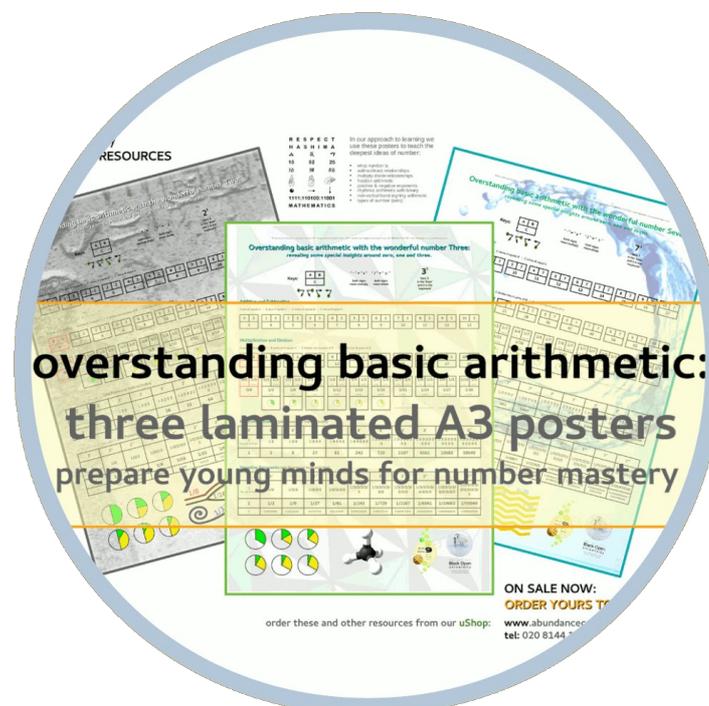
Our e-learning courses involve a quality blend of access to our e-learning platform, webinars, teleconferencing and telephone calls to support the learning process.

# Overstanding Basic Arithmetic

In this course and webinar series we use our custom designed posters to teach the deepest ideas of number:

Topics Covered: what number is?, add-subtract relationships, multiply-divide relationships, fraction arithmetic, positive & negative exponents, rhythmic arithmetic with binary, non-verbal hand-signing arithmetic, types of number (sets), number relations introducing algebra number relations introducing other big ideas in mathematics.

Overstanding basic arithmetic with the wonderful numbers Two, Three and Seven as keys to the whole number system.



**CODE:**  
OBA

**HRS:**  
45m

**WKS:**  
11 of 13

**DAY:**  
customised

**TIME:**  
customised

**FEE:**  
£180

**WEB:** [www.abundancecentre.org/ushop](http://www.abundancecentre.org/ushop)

# Fear - a key for transforming it :

## Fear is the Mind Killer

This is a very simple yet powerful learning resource designed to support Ones in transforming fear. For many fear can be acutely or chronically debilitating. Acutely meaning intensely and chronically meaning persistent and recurring over a long time. It may appear obvious when someone is experiencing fear however it can also be amazingly subtle, even invisible to the untrained eye.

Can you see what you fear?

This course provides creative guidance on fear reduction and fear removal.



<b>CODE:</b>	<b>HRS:</b>	<b>WKS:</b>	<b>DAY:</b>	<b>TIME:</b>	<b>FEE:</b>
FITMK	45m	11 of 13	customised	customised	£180
<b>WEB:</b>	<a href="http://www.blackopenuniversity.eu/moodle/">www.blackopenuniversity.eu/moodle/</a>				



# Abit's Secret: Overstanding the Warrior's Province

This course is based on a highly creative allegory on the profound nature of space and life, the story is called Abit's Secret. Using Meta & Quantum - Physics ideas and Classic Maths principles this learning forms a gateway into advance visualisation and knowledge. The course is for both young and maturing children, adults and teachers too.

The story and course of ABit's Secret has 12 Chapters, they reveal the deeper meanings of key terms and principles. The Unifiedknowledge Pedagogy (approaches to teaching and learning) is also shared for parent and teacher empowerment. The appendix/glossary gives profound insight and altogether enable the expressing of One's Overstanding of One's Space

For parents and teachers learning how to share the deepest core ideas of maths through creative story will prove to be a life changing experience. Not to mention you own journey to "Overstanding" space in all its dimensions. You'll be saying Wow ! too. This course is well suited to the mature young, especially those who are clearly known as gifted and talented, help them grow beyond the appearance of limits around them.

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# Abit's Secret

## Overstanding the Warrior's Province

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Astehmari Batekun

**CODE:** ASOtWP    **HRS:** 45m    **WKS:** 11 of 13    **DAY:** customised    **TIME:** customised    **FEE:** £180

**WEB:** [www.peoplescience.org.uk/ushop-profiles/abits-secret/](http://www.peoplescience.org.uk/ushop-profiles/abits-secret/)

# Abit and the Point of Origin: What is Number?

This new course and supporting book gives the perfect introduction to NUMBER, the real story.

The story goes that Abit, the preying mantid, took one of his special naps and as he slept a whole world was created.

In this place it was strange because at first he couldn't perceive anything but then a point came to him. Immediately he created another point and so there where two points, they were twins. Abit played with the points all day realising for the first time what a day was and from that point on space-time was known in a deeper way.

Abit went to his friend Winchi, the Crane, to show her his points and the new world he was coming to know. She was impressed and in her excitement she...

The story/course goes on to explore: point, space-time, +1, Two, One, Point of Origin, Zero, NUMBERS, MEASUREMENT, -1, Minus One, limitlessness, infinity, Half, RATIO, fractions, rational, Irrational, imaginary and composite numbers, patterns



**CODE:**  
AatPoO

**HRS:**  
45m

**WKS:**  
11 of 13

**DAY:**  
customised

**TIME:**  
customised

**FEE:**  
£180

**WEB:** [www.blackopenuniversity.eu/moodle/](http://www.blackopenuniversity.eu/moodle/)

## Ngd Zehde TaJaBa Guidance: help with wholistic business/venture planning

Preparing a business plan can be an ominous task that many fear.

For this reason we have realised that developing a “Preliminary Executive Summary” is a useful and natural way into the business planning process (zehde). This course’s core modelling tool will bring your mind to all the key areas that must be considered. The exercises will help assure you of the venture’s value and will help direct your future attention (work: energy and time) into the best development process.

[DOWNLOAD THE FULL GUIDANCE:](#)



**CODE:**  
NztJB

**HRS:**  
2h

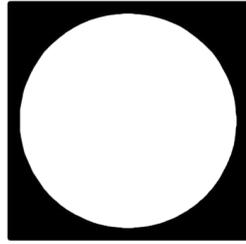
**WKS:**  
11 of 13

**DAY:**  
customised

**TIME:**  
customised

**FEE:**  
£270

**WEB:** [www.blackopenuniversity.eu/moodle/](http://www.blackopenuniversity.eu/moodle/)



**abunDANCE**  
in Schools

abunDANCE in Schools is a unifiedknowledge (yeht'mr urwuk'eht) learning programme for primary and secondary schools as well as tertiary level education. Essentially we use 'dance' and a diverse range of cultural arts to teach core ideas of maths, the sciences, lifeskills, citizenship and respect.

"abunDANCE" is an experiential approach to education that brings about a knowledge of "unifiedknowledge"; our unified (cross-curricular) approaches to learning, self-expression and respect that organically nurtures young people, bringing out their best.

የጥምር ዕውቀት yeh'tmr urwuk'eht (more commonly known as unifiedknowledge) promotes the wholistic (unified) expression and experience of maths and science in nature. Thus we value maths, art and science as intrinsically integrated subjects.

Our approach seeks to reveal the inter-relationships of these subjects with nature as the 'practical' or 'visualised' classroom / theatre, thus our method minimises presenting them as separate or abstract.

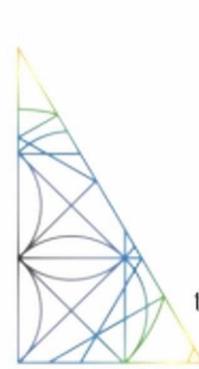
In unifiedknowledge workshops and classes the idea of mathematics is simplified to 'the study and application of patterns' which, with a little guidance, helps everyone recognise it as underpinning other subjects whether they be language, science, physical education, heritage, geography, history, agriculture, astronomy and so on. The sciences we observe as specialist fields of mathematics.

For bookings enquiries contact:

**Clarence Nourrice**

*Bookings Team Leader  
Schools Of Unified Learning*

T: 020 8144 1720  
M: 075 3003 8547  
E: [learning@abundancecentre.org](mailto:learning@abundancecentre.org)



abunDANCE  
the Art of Mathematics

maths taught through dance



Get the **abunDANCE in Schools** prospectus  
for teachers and education professionals



# abunDANCE workshops - potential themes

MORE INFO: [www.ulearnnaturally.org/thinkout/workshops](http://www.ulearnnaturally.org/thinkout/workshops)

## ● Making Patterns - Fun-da-Mental Points (lines, and angles too)

Relating dance movements to fundamental maths ideas gives a stronger internal foundation for young people to build mathematical insight, creativity and enjoyment.

## ● Introducing the Art of Mathematics - Part 1

Mathematics viewed from cultures panAfrica - its simple and omnipresent. Learning the Mathematician's Charter - Keywords explored; observe, record, enjoy, estimate, calculate, forecast, visualise.

## ● Reasoning and the Art of Mathematics - Part 2

Principled visualisation, the greatest purpose of maths. Helping young people value mathematical reasoning, language and empowerment.

## ● Number, Measure and Ratio - the old school classics

These three mathematical ideas have a special depth that when explored can be found to bind many other aspects of maths, the sciences, the arts, nature and general lifeskills studies. There is a great and liberating value when gaining consciousness and competence in them. We explore these ancient classics from refreshingly diverse cultural view points.

## ● I Count Too - Binary Drumming

Counting with one hand, counting with two things. Looking at music and number in a deeper way we explore an ancient basis of drum language. Alternate ways of counting combined with rhythmic harmony development make a great way to enhance the value and utility of number.

## ● Special Powers in the Hands of Children

5 important reasonings on power that every child should know, supported by interactive explorations into the meaning of peace development and the realisation of wisdom. Core mathematical ideas as they relate to harmony, energy, work, power and wisdom. Becoming an advance learner.

## ● Transformations of Winchi

Maths taught through dance - the African Crowned Crane bird in rotation, reflection, enlargement and translation.

*Transformational studies: In this our most popular **abunDANCE in Schools workshop** we dance like birds (Winchi, the African Crowned Crane), exploring closely how our dance movements and gestures express the **mathematical ideas of transformation** and other interrelated principles/themes. We work through and practice physical and mental exercises that build determination and mind-breath-body harmonisation. Then, as a grand finale, we bring it all together for the great show, the part of our dance programme we call *The Ngoma*; bringing principles and free creative expression together naturally in **abunDANCE**.*

## ● ግዛት Gzat: The Province of One

Introducing foundational maths principles of space through cultural metaphor. Drawing (visual art) and warrior dance movements combined enhances this multi-sensory learning.

## ● Valuing the Quest for Truth

Ancient views of maths saw a unity of mathematical "truths" with personal and social character development, ethics and justice. Exploring the educative culture of the world's oldest recorded mathematical geniuses and natural philosophers.

