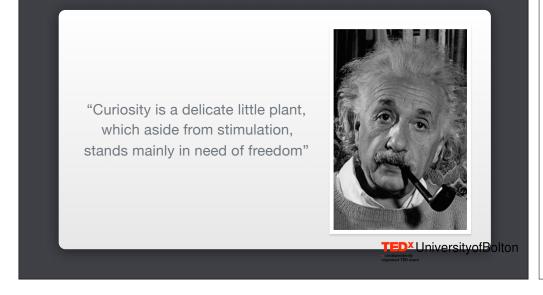






Curiosity matters...academic success...

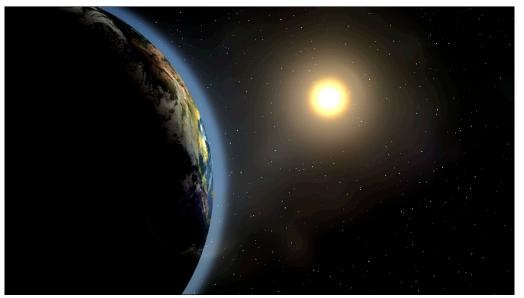
job performance...
relationships...
life satisfaction...
problem-solving...
longevity...

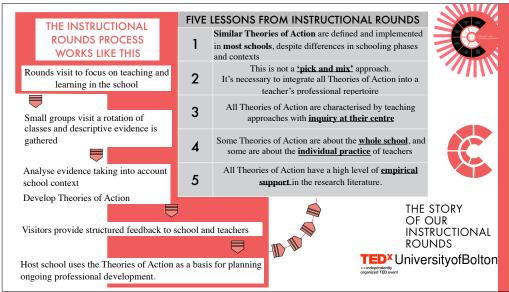


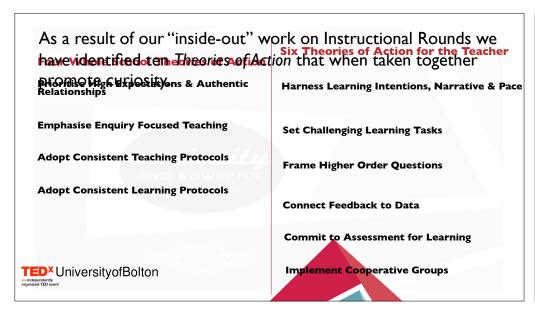
If we want our students to be **CURIOUS**, we have to teach them

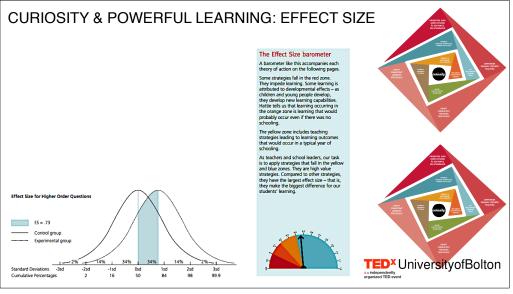
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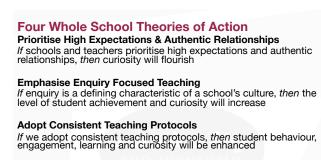
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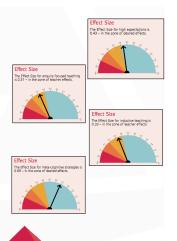


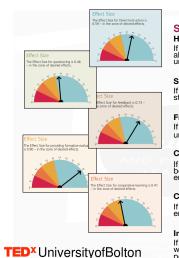
If we adopt consistent learning protocols in all classes, then all students will experience an enhanced capacity to learn, and to

**Adopt Consistent Learning Protocols** 

develop skills, confidence and curiosity

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#### Six Theories of Action for the Teacher

Harness Learning Intentions, Narrative & Pace

If we harness learning intentions, narrative and pace so students are more secure about their learning, and more willing to take risks, then achievement and understanding will increase and curiosity will be enhanced

#### Set Challenging Learning Tasks

If learning tasks are purposeful, clearly defined, differentiated and challenging, then all students will experience powerful, progressive and precise learning

#### Frame Higher Order Questions

If we systematically employ higher order questioning, then levels of student understanding will deepen and levels of achievement will increase

#### Connect Feedback to Data

If we connect feedback to data about student actions and performance, then behaviour will be more positive, progress will accelerate, and curiosity will be enhanced

#### Commit to Assessment for Learning

If we commit to peer assessment, and assessment for learning, then student engagement, learning and achievement will accelerate

#### Implement Cooperative Groups

If we implement cooperative group structures and techniques to mediate between whole class instruction and students carrying out tasks, then the academic performance of the whole class will increase

# How students think and learn TED\* UniversityofBolton

Number	Principle	Curiosity & Powerful Learning
1	Students' beliefs or perceptions about intelligence and ability affect their cognitive functioning and learning	Moral purpose
2	What students already know affects their learning	Learning intentions, challenging tasks
3	Students' cognitive development and learning are not limited by general stages of development	Learning intentions, challenging tasks
4	Learning is based on context, so generalising learning to new contexts is not spontaneous but instead needs to be facilitated	Inquiry, challenging tasks, assessment for learning, feedback to data

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How students think and learn



Number	Principle	Curiosity & Powerful Learning
5	Acquiring long-term knowledge and skill is largely dependent on practice	Teaching and learning protocols
6	Clear, explanatory, and timely feedback to students is important for learning	Connect feedback to data, assessment for learning
7	Students self-regulation assists learning, and self-regulatory skills can be taught	Learning protocols
8	Student creativity can be fostered	Inquiry, challenging tasks, assessment for learning, feedback to data

CURIOSITY AND POWERFUL LEARNING

### LEARNING EXPERIENCES ...

I wrote - with Bruce Joyce - some time ago that:

Learning experiences are composed of content, process and social climate.
As teachers we create for and with our children opportunities to explore and build important areas of knowledge, develop powerful tools for learning, and live in humanizing social conditions.



TED\* University of Bolton

## David Hopkins

David Hopkins is Professor Emeritus at the Institute of Education University College London, the University of Nottingham and Chair of Educational Leadership at the University of Bolton.

He is a Trustee of Outward Bound and the charity 'Adventure Learning Schools'. David holds visiting professorships at the Catholic University of Santiago, the Chinese University of Hong Kong and the Universities of Cumbria, Edinburgh, Melbourne and Wales and consults internationally on school reform. Between 2002 and 2005 he served three Secretary of States as the Chief Adviser on School Standards and Head of the Standards and Effectiveness Unit (SEU) at the Department for Education and Skills.

Previously, he was Chair of the Leicester City Partnership Board and Dean of the Faculty of Education at the University of Nottingham. Before that again he was a Tutor at the University of Cambridge Institute of Education, a Secondary School teacher and an Outward Bound Instructor. David is also an International Mountain Guide who despite two new knees still climbs and skis in the Alps and Himalayas.

David's recent book Exploding the Myths of School Reform, completes his school improvement trilogy; the previous two being, Every School a Great School and School Improvement for Real. His series of Powerful Learning manuals that provide evidence based protocols to empower leaders and teachers are now available as 'e books' as well as being published by McREL and ACEL. David was recently ranked the 16th most influential educator in the world by the American based Global Gurus organisation.

