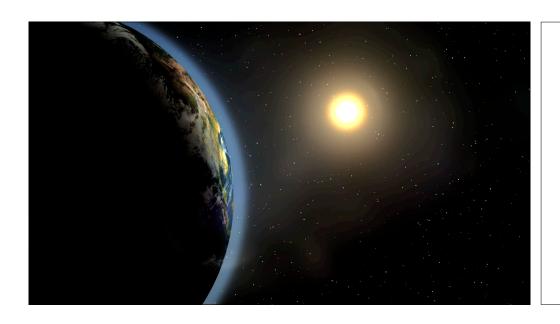
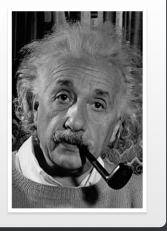


job performance...
relationships...
life satisfaction...
problem-solving...
longevity...



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

"Curiosity is a delicate little plant, which aside from stimulation, stands mainly in need of freedom"



THE CHALLENGES OF THE FUTURE









1350 - Classroom at the University of Bologna, Laurentius de Voltolina



To meet the needs of our students, we need to do better



Privatised, atomised practice cannot be improved at scale



The workload associated with improved practice is too great for individual teachers

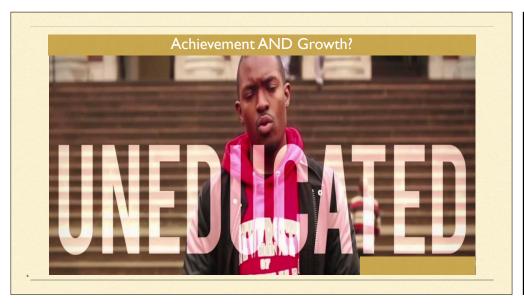
THE CHALLENGES OF THE FUTURE

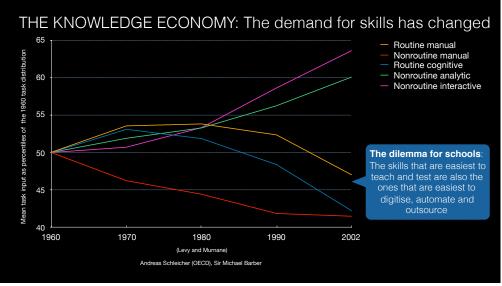
THE CHALLENGES OF THE FUTURE

A new perspective is required...what does effective learning mean today

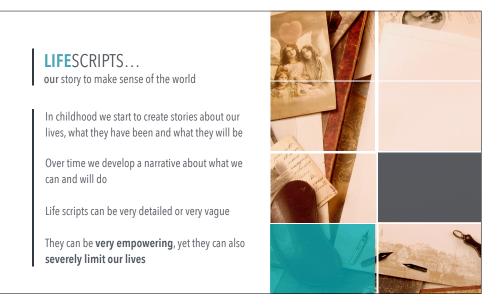
Learning in School, University and Work Formal: When, where, how and with whom is predetermined Individual: We demonstrate our understanding and skills alone Linear: Learners follow a "sequential" program according to the curriculum Just in case: Knowledge acquisition precedes actions Tutor-to-student: One expert, few learners Transmissive: Teacher transmits (usually through lectures), students receive

Learning Socially Informal: We learn when, where and with whom we please We study and demonstrate our understanding in groups Non-linear: Learners follow non-sequential routes according to Just in time: Knowledge is gained as the task demands Networked: The expertise is in the crowd **Experiential:** Meaning is made and shared by experience











LIFESCRIPTS

our story to make sense of the world

Understanding life scripts gives us the ability to change them

The aptitudes and skills of powerful learners are the tools for change





POWERFUL LEARNERS...

- **acquire** useful and important bodies of knowledge
- **become** powerful learners by expanding and making articulate their repertoire of learning strategies
- **become** fine, caring and principled citizens

POWERFUL LEARNERS...

- integrate prior and new knowledge
- acquire and apply a range of learning skills solve problems individually and in groups
- learn from their successes AND failures
- evaluate conflicting evidence
- think critically
- accept uncertainty and difficulty

How would we rate the "typical" student at our school on:

OUR STUDENTS AS POWERFUL LEARNERS...

- **integrating** prior and new knowledge what is the evidence?
- acquiring and applying a range of learning skills what are the learning skills and how do students acquire them?
- solving problems individually and in groups how much problem solving is done individually and in groups?
- **learning** from their successes AND failures how do we celebrate success and failure?
- evaluating conflicting evidence what structures do we have in place to support our students in this area?
- **thinking** critically is our work on critical thinking effective?
- accepting uncertainty and difficulty what structures do we have in place to support our students in this area?



Curiosity THE UNFINISHED BUSINESS

We made great progress on two of our three goals

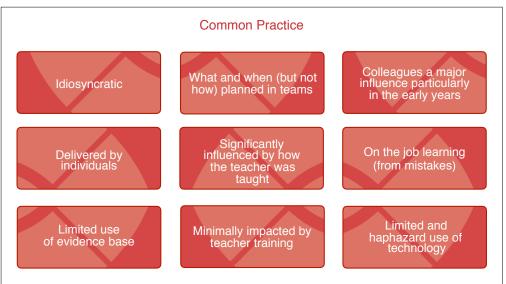


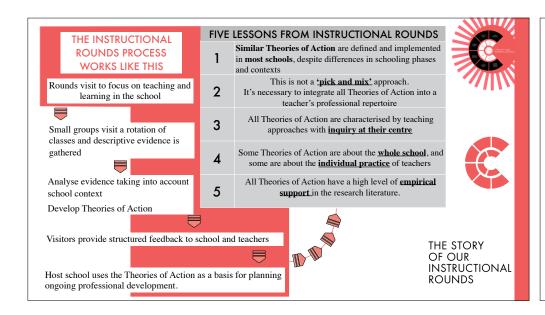


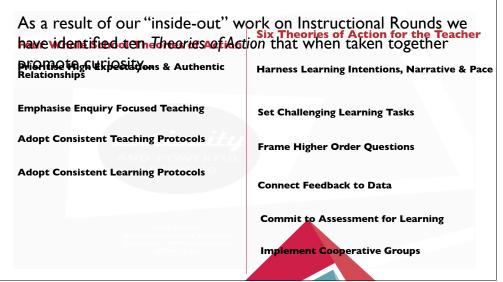


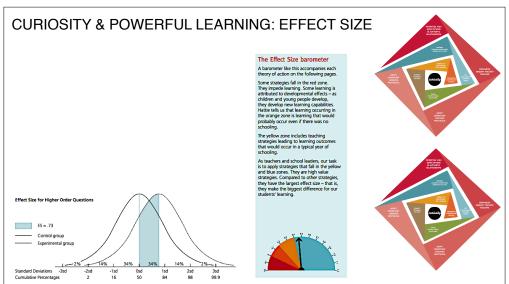


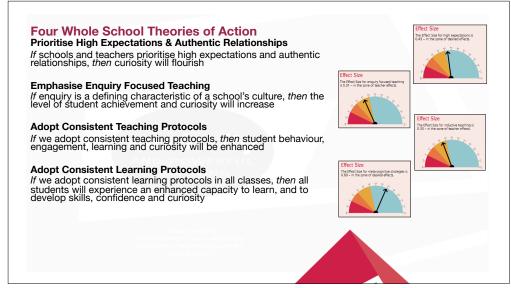


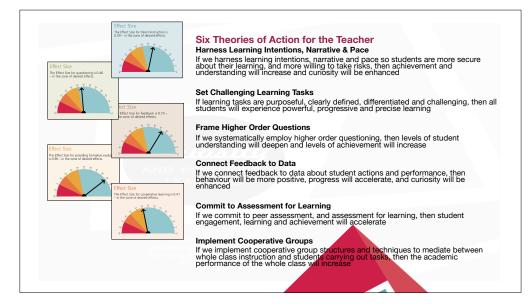


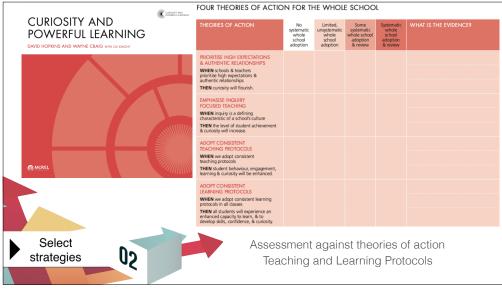


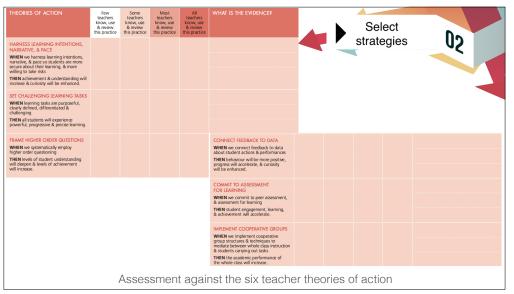




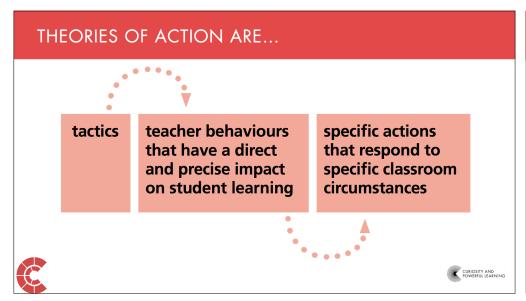


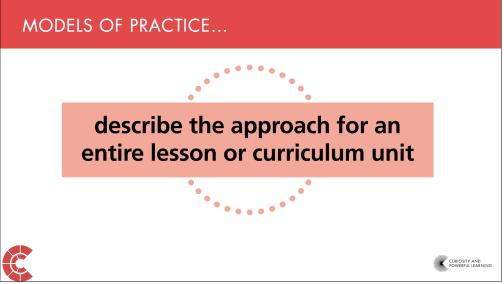














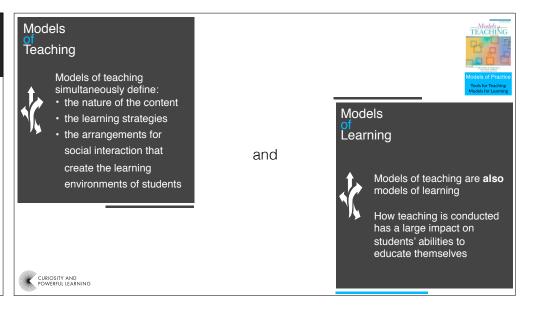
- ✓ Based on research
- ✓ Highly effective
- assures knowledge growth
- effect sizes of 0.7+



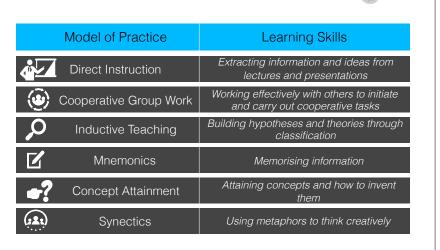
- learning tools
- Whole Class Instruction
- Cooperative Group Work
- Inductive Teaching
- Mnemonics
- Concept Attainment
- Synectics
- ✓ Precise and new ways of using technology



CURIOSITY AND POWERFUL LEARNING





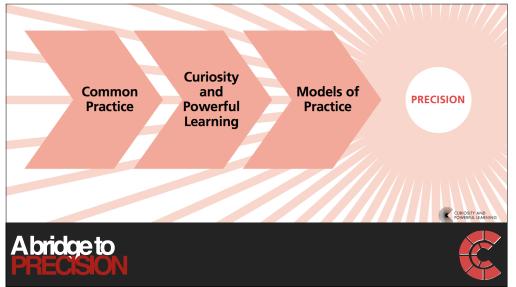


Models of Teaching

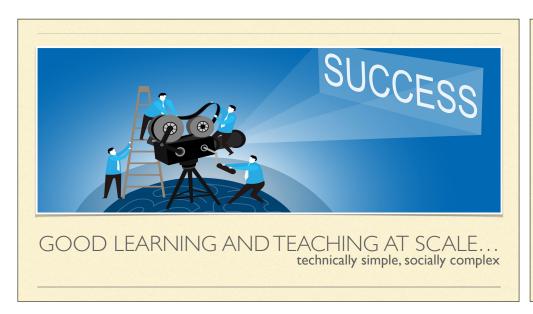
Models of Practice

Tools for Teaching

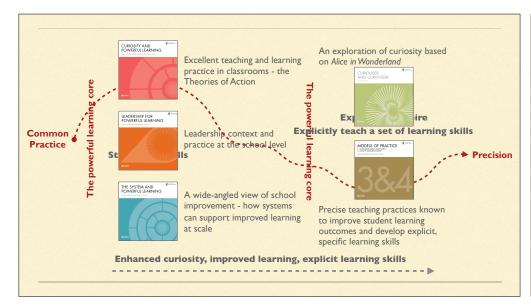
Models for Learning















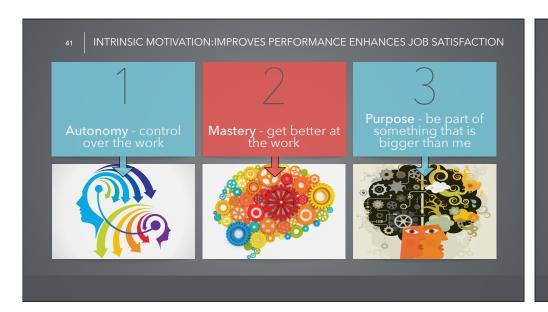
"What these high performing systems (and schools) do is focus relentlessly on:
ensuring high instructional quality
while
reducing variability in the quality of



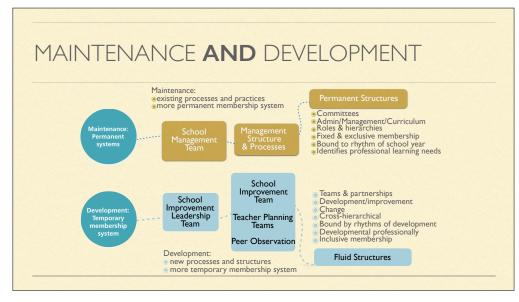


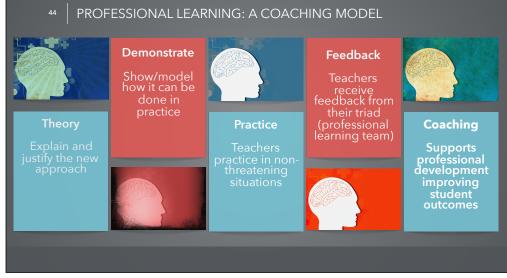




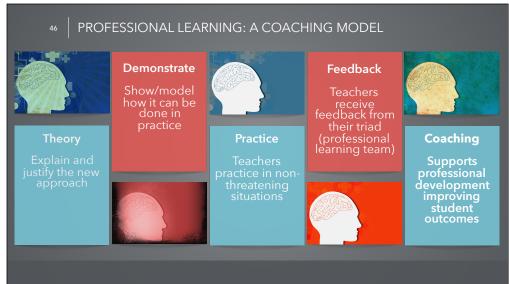




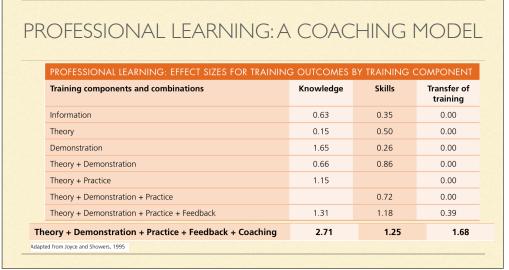


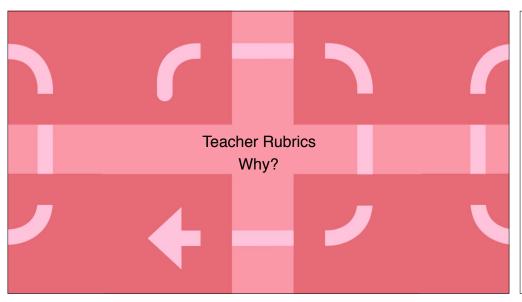














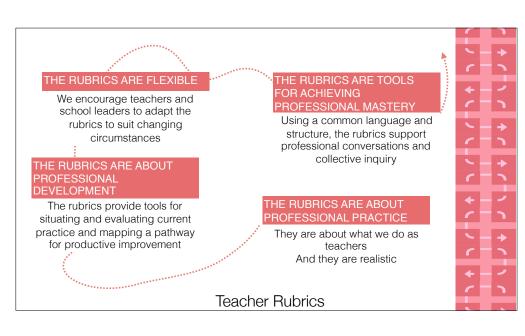
Teacher Rubrics

Four purposes for teachers

- Clearly set out the habits, behaviours, and performance expectations of <u>high quality</u>
 teaching
- 2. Support <u>personal reflection</u> by teachers about where their practice falls on the continuum
- 3. Provide a <u>common reference</u> point and language for teachers and school leaders when discussing teaching practice and performance
- 4. Inform planning for professional learning and development

Three outcomes for students

ENSURING MASTERY	Teachers plan with an unrelenting focus on high standards to ensure all students achieve mastery
CONTINUAL DEVELOPMENT	Every action and every communication is focussed on the individual student's ability to constantly grow and improve
LONGEVITY	All students set and achieve their goals, and all students are ready for post-school education and employment





TEACHERTEAMS

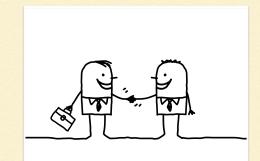


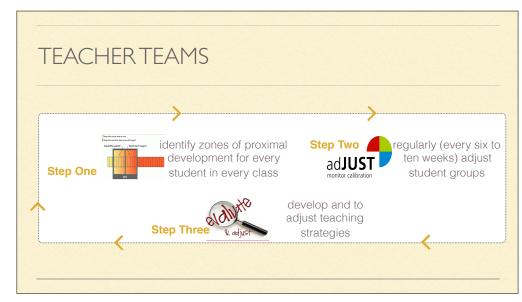
Teams of teachers responsible for cohorts of students rather than individual teachers responsible for one class

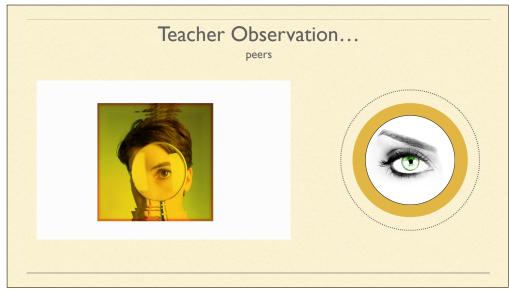
Planning the "how" of teaching rather than just the "what" and "when"

TEACHER TEAMS

- Teacher student relationships are much stronger and teacher effectiveness is enhanced
- Professional development occurs as part of the planning and teaching process and is visible to all
- There is built-in accountability
- There is greater flexibility to accommodate individual student needs
- Planning is more effective







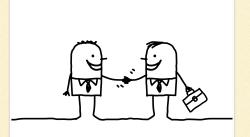


Teacher Observation...

The problems with observation

- It usually becomes personal
- We absolutely know what we like
- Strong emotional response to particular behaviours/styles is hard to over-rule
- We focus on observable proxies for learning
- Learning is invisible
- Preferences for particular pedagogies are widely shared, but evidence and understanding of their effectiveness is limited
- We think learning depends on what the teacher does
- We assume that if you can do it, you can spot it
- We don't believe observation can miss so much

PEER OBSERVATION



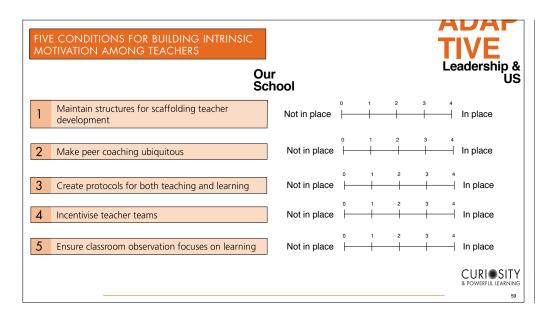
Teams of teachers developing professional practices that:

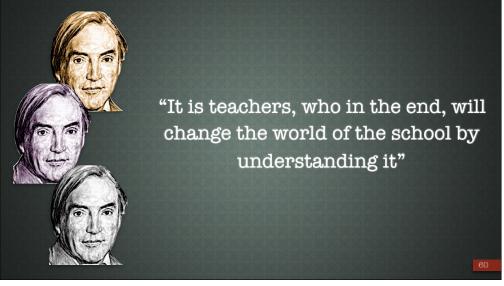
- emphasise non-judgmental peer observation
- support through triads

AND

• are disciplined by clear definitions and protocols

will develop professional practices that have a predictable impact on student learning and achievement





David Hopkins

David Hopkins is Professor Emeritus at the Institute of Education University College London 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 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 (retired) who despite two new knees still climbs and skis in the Alps and Himalayas. His recent book *Exploding the Myths of School Reform*, completes his school improvement trilogy; the previous two books being, *Every School a Great School* and *School Improvement for Real*. David was recently ranked the 16th most influential educator in the world by the American based Global Gurus organisation.

