



School-led support for
evidence-based practice

Shotton Hall Research School



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Session overview

- Role and purpose of Research Schools
- What do we mean by 'evidence'?
- What is the latest evidence telling us?
- Questions



Role and purpose of Research Schools



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Research Schools Network

- The Research Schools Network is a partnership between the EEF, the IEE and the Department for Education.
- There are 22 Research Schools which provide school-led support for the use of evidence to improve teaching practice.



The Case for Evidence-Based Education



'Best bets' for improving outcomes for pupils

Effective use of time and resources: identify what does and doesn't work

Teaching seen as more professionalised

Increased teacher autonomy



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Applying evidence in practice



What have we done?

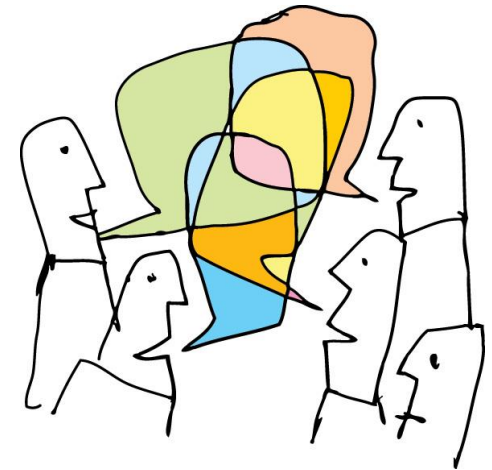
- Evaluated CPD programme – aligned with evidence-based principles. Made this explicit to staff
- Evaluated & refined SCITT curriculum – aligned with evidence-based principles. This is made explicit to trainees. They are accessing EEF Toolkit etc – forming good habits from the start.



The need for Research Schools

Uptake of research is based on trust and people as much as practical usefulness:

- Change is a social process
- The expertise on how to apply evidence in schools and classrooms lies with teachers
- Schools listen to other schools
- Research needs practical application: peer coaching and training is key to producing substantive changes in teachers' practice



Research Schools

Research Schools work with the other schools in their network to support them to make better use of evidence to inform their teaching and learning.

They do this through:

- Communication
- Training and Modelling
- Innovation



Communication

- Newsletter
- Social media
- Blogs
- Conferences e.g. Schools NE Summit
- Teachmeets



Training

- Programmes for leaders and teachers
 - Leading Learning
 - Leading Literacy
 - Memory and Metacognition

Innovation

- Support with developing innovations and evaluation models
- Applications for IEE Innovation Evaluation Grants
- Invitations to participate in new and developing evaluations
- Running an RCT in testing and retrieval



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What do we mean by 'evidence'?



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Levels of evidence



Types of evidence



Indicative strength	Type of evidence
	<ul style="list-style-type: none"> • Meta-analysis or systematic review - analysis and summary across many individual evaluations
	<ul style="list-style-type: none"> • Matched-comparison design or a randomised controlled trial – tests intervention against a comparison grp
	<ul style="list-style-type: none"> • Sound theory backed by a growing body of empirical research & may cite DfE policy / White paper
	<ul style="list-style-type: none"> • Independent research / evaluation – uses surveys, data analysis, monitoring, interviews, observations, focus groups, etc
	<ul style="list-style-type: none"> • Internal / in-house evaluation. Not independently evaluated • - inc. case studies, observation, interviews, MI
	<ul style="list-style-type: none"> • Expert opinion / advice from consultants, academics or sector grp
	<ul style="list-style-type: none"> • Media articles / anecdotal reports and interest groups

EEF evidence

There's evidence and research to justify almost every decision ...

But is it good evidence?

How specific is the evidence to what you want to achieve?

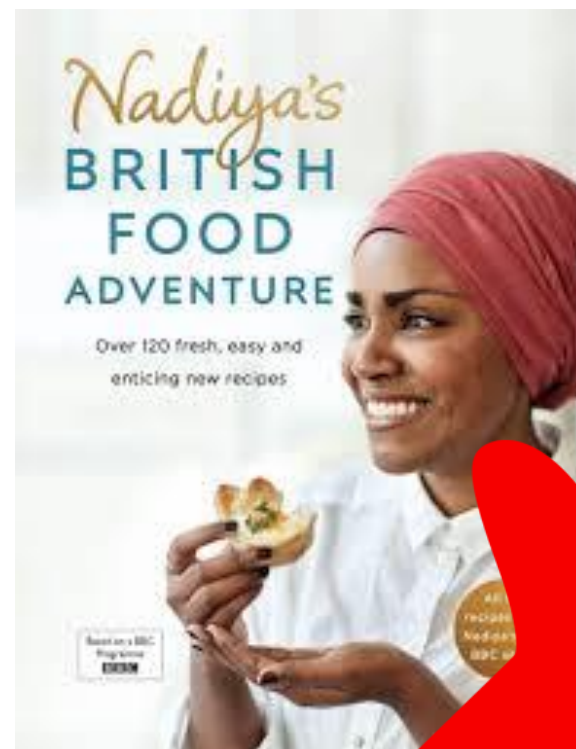


The Teaching and Learning Toolkit

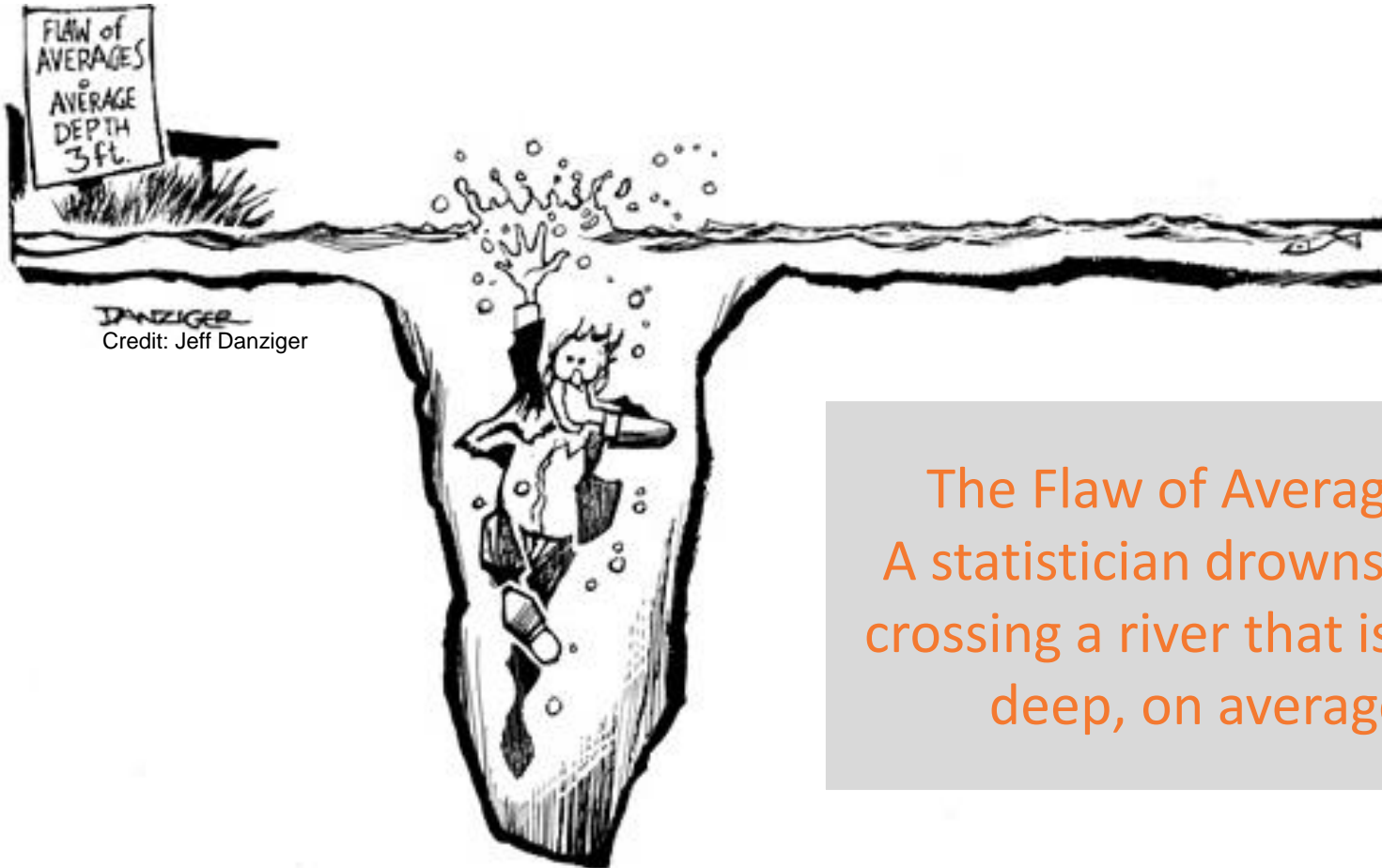


Toolkit Strand	Goal	Evidence Strength	Months Impact
Arts participation	Get impact for low cost, based on moderate evidence	⬢⬢⬢⬢⬢	+2
Aspiration interventions	Tap into an aspect for moderate cost based on limited evidence	⬢⬢⬢⬢⬢	0
Behaviour interventions	Evidence suggests that behaviour interventions can produce large improvements in academic performance	⬢⬢⬢⬢⬢	+4
Block scheduling	Tap into an aspect for very low or no cost, based on limited evidence	⬢⬢⬢⬢⬢	0
Collaborative learning	Evidence suggests for very low cost, based on extensive evidence	⬢⬢⬢⬢⬢	+5
Digital technology	Evidence suggests for moderate cost, based on extensive evidence	⬢⬢⬢⬢⬢	+4
Early years intervention	Evidence suggests for very high costs, based on extensive evidence	⬢⬢⬢⬢⬢	+5
Extending school time	Get impact for moderate cost, based on moderate evidence	⬢⬢⬢⬢⬢	+2
Feedback	High impact for low cost, based on moderate evidence	⬢⬢⬢⬢⬢	+8
Homework (Primary)	Get impact for very low or no cost, based on limited evidence	⬢⬢⬢⬢⬢	+2
Homework (Secondary)	Evidence suggests for very low or no cost, based on moderate evidence	⬢⬢⬢⬢⬢	+5
Individualised instruction	Get impact for low cost, based on moderate evidence	⬢⬢⬢⬢⬢	+2
Learning styles	Get impact for very low cost, based on limited evidence	⬢⬢⬢⬢⬢	+2
Mastery learning	Evidence suggests for very low cost, based on moderate evidence	⬢⬢⬢⬢⬢	+5
Mentoring	Get impact for moderate cost, based on moderate evidence	⬢⬢⬢⬢⬢	+1
Meta-cognition and self-regulation	High impact for very low cost, based on extensive evidence	⬢⬢⬢⬢⬢	+8
One to one tuition	Evidence suggests for high cost, based on extensive evidence	⬢⬢⬢⬢⬢	+5
Oral language interventions	Evidence suggests for low cost, based on extensive evidence	⬢⬢⬢⬢⬢	+5
Outdoor adventure learning	Evidence suggests for moderate cost, based on limited evidence	⬢⬢⬢⬢⬢	+3
Parental involvement	Evidence suggests for moderate cost, based on moderate evidence	⬢⬢⬢⬢⬢	+3
Peer tutoring	Evidence suggests for very low cost, based on extensive evidence	⬢⬢⬢⬢⬢	+5
Performance pay	Get no impact for low cost, based on very limited evidence	⬢⬢⬢⬢⬢	0
Phonics	Evidence suggests for very low cost, based on very extensive evidence	⬢⬢⬢⬢⬢	+4
Physical environment	Tap into an aspect for low cost, based on very limited evidence	⬢⬢⬢⬢⬢	0
Reading comprehension strategies	Evidence suggests for low cost, based on extensive evidence	⬢⬢⬢⬢⬢	+5
Reducing class size	Get impact for very high cost, based on moderate evidence	⬢⬢⬢⬢⬢	+3
Repeating a year	Negative impact for very high cost, based on extensive evidence	⬢⬢⬢⬢⬢	-4
School uniform	Tap into an aspect for very low cost, based on very limited evidence	⬢⬢⬢⬢⬢	0
Setting or streaming	Negative impact for very low cost, based on moderate evidence	⬢⬢⬢⬢⬢	-1
Small group tuition	Evidence suggests for moderate cost, based on limited evidence	⬢⬢⬢⬢⬢	+4
Social and emotional learning	Evidence suggests for moderate cost, based on extensive evidence	⬢⬢⬢⬢⬢	+4
Sports participation	Evidence suggests for moderate cost, based on limited evidence	⬢⬢⬢⬢⬢	+2
Summer schools	Evidence suggests for moderate cost, based on extensive evidence	⬢⬢⬢⬢⬢	+2
Teaching assistants	Get impact for high cost, based on limited evidence	⬢⬢⬢⬢⬢	+1

- 34 syntheses of the research findings from meta-analyses and systematic reviews, grouped by type.
- Each strand shows:
 - Average impact expressed as additional months' learning progress over a year
 - Average costs
 - Evidence security ratings
- The Toolkit gives '**best bets**' based on what *has* worked, and *what hasn't worked*, through others' experiences.
- It doesn't tell you what *will* work – but is a good starting point for the evidence.



BEWARE!



Credit: Jeff Danziger

The Flaw of Averages...
A statistician drowns whilst
crossing a river that is 3 feet
deep, on average.



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Derbyshire pupils wear slippers at school to get 'better grades'

BBC

Sign in

NEWS

🕒 31 January 2017 | Derby



🔗 Share

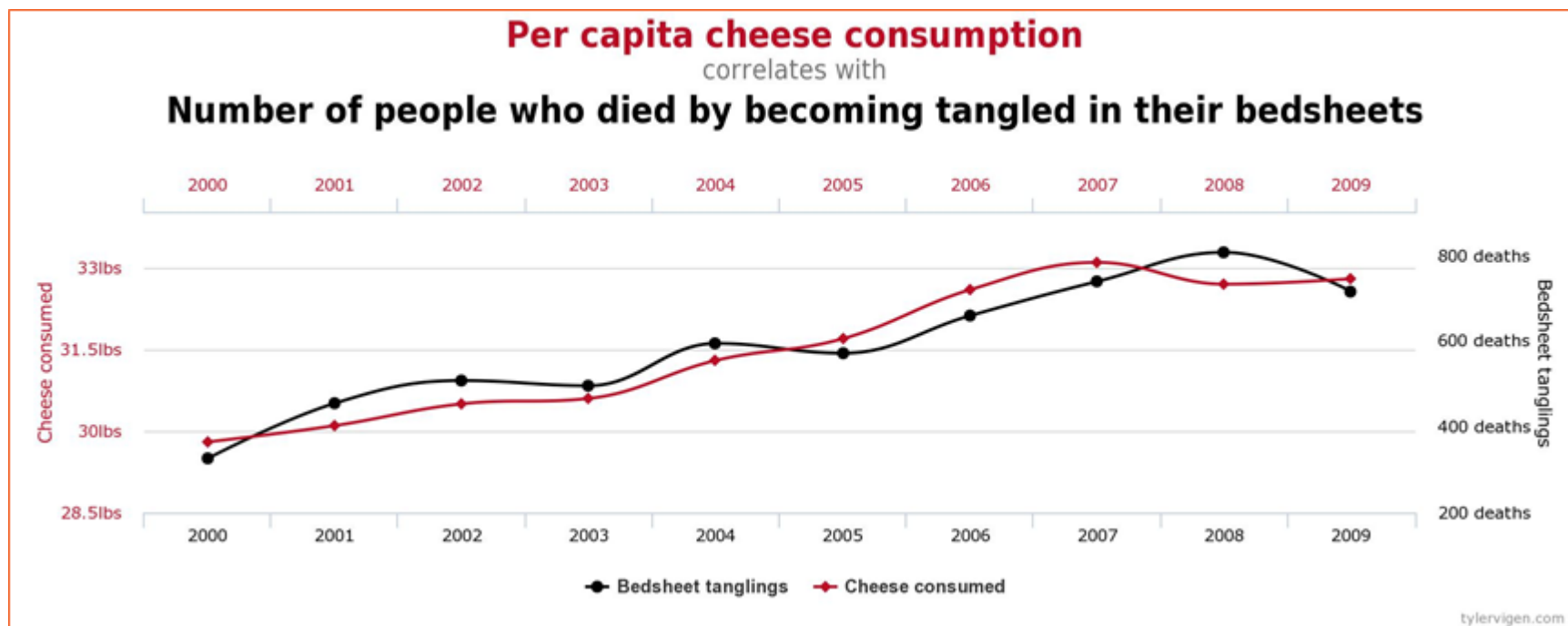
A primary school has allowed its pupils to wear slippers in class after research suggested it helps them get better grades.

Findern Primary School in Derbyshire has been trialing the idea there are benefits to children's learning when in a "shoeless" environment. Head teacher Emma Tichener said the pupils have been "more relaxed and calmer than usual."

Professor Stephen Heppell from Bournemouth University said [he found children behaved better](#) without shoes. Prof Heppell researched the topic for more than 10 years in 25 countries. Shoeless learning has been carried out in schools in Scandinavia and New Zealand and learning centres in other countries.

Mrs. Tichener said: "We hope that in time we can measure their progress and see if it has made a difference in their achievements. We are looking for different ideas to improve the experience for our students so if this works then it might become a more permanent."

How might the language used here persuade a school to take the research at face value?
What questions would you want to ask about this research?



Correlation does NOT imply causation!



What is the current evidence telling us?



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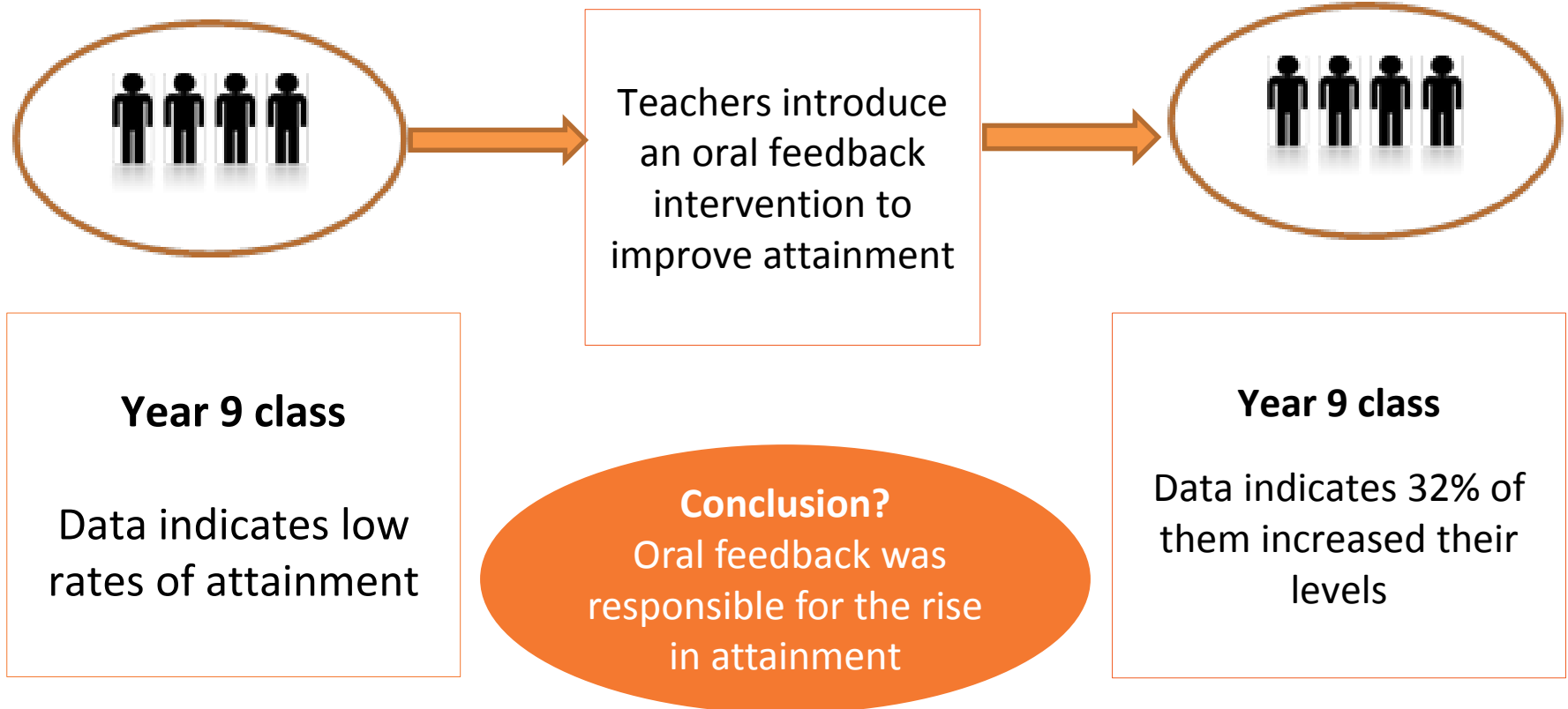
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- There is no doubt that evidence has come of age within the teaching profession ...
- But how do we ensure it has rigour and is therefore reliable?

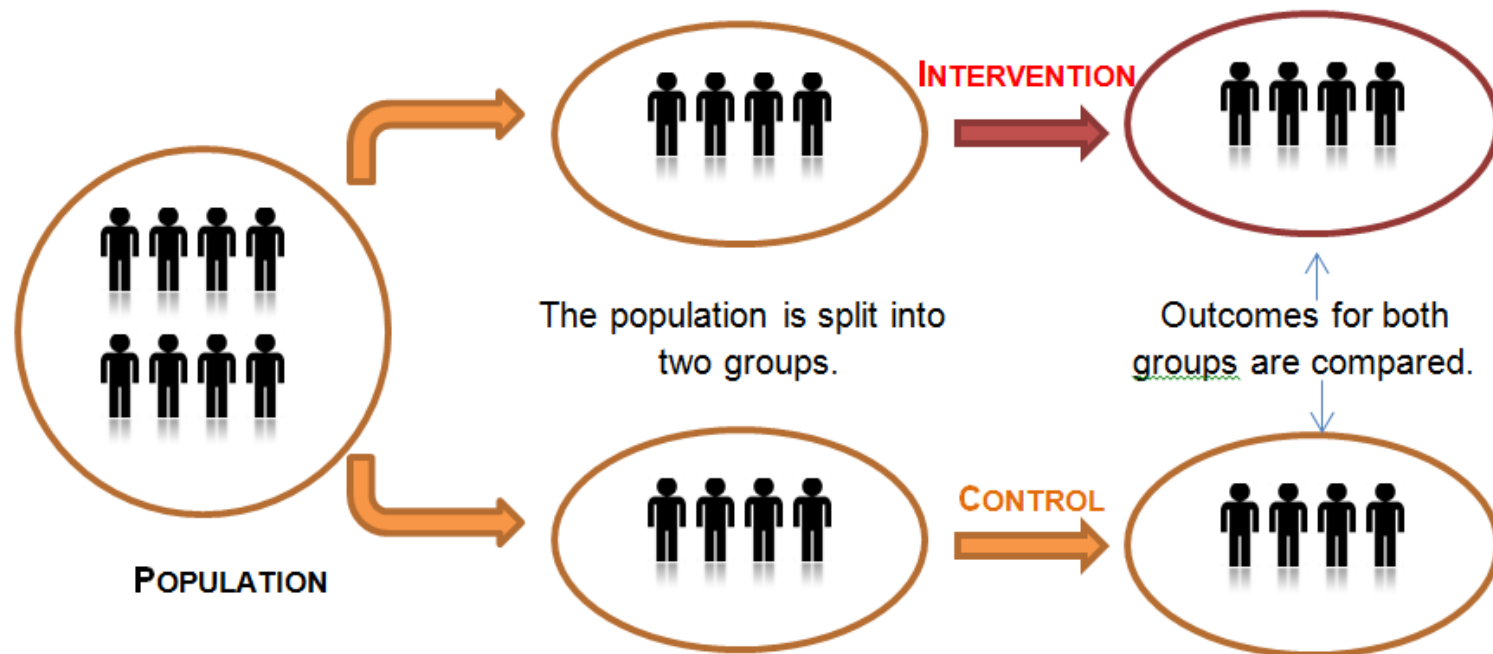


A traditional school approach to intervention impact



Control vs. Treatment

Figure 1: evaluation with a comparison group.



Promising projects



Education Endowment Foundation

EEF / Our Work / Projects / Promising Projects

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Most Recent Projects
Our most recently funded projects.
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Latest Reports
The most recent projects to complete.
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Promising Projects
EEF Projects that have received scale-up grants
9 Projects

Now Recruiting!
All projects currently recruiting.
12 Projects

Promising Projects

This section contains details of programmes that the EEF has previously tested, which we believe have promise and to which we have re-granted in order to test the programme's impact at a larger scale. The section will be updated as new promising programmes are identified from the EEF's work and the results of follow-up trials are known.

This is not an exhaustive list of the most effective programmes operating in the UK: by definition it only contains details of those that the EEF has tested. Nonetheless, we believe it – alongside the results of other EEF programmes and the Teaching and Learning Toolkit – may be useful for schools and others in deciding which types of programmes to invest in.

Project Name	Cost	Evidence Strength	Months Impact
Using Self-Regulation to Improve Writing ★ promising project A programme which aims to improve pupils' writing by promoting self-regulation.	£ £ £ £ £	⬜ ⬜ ⬜ ⬜ ⬜ ⬜ ⬜	+9
Catch Up Literacy ★ promising project A literacy intervention delivered by trained teaching assistants.	£ £ £ £ £	⬜ ⬜ ⬜ ⬜ ⬜	+2
Improving Numeracy and Literacy in Key Stage 1 ★ promising project A joint project testing two interventions: 'Mathematics and Reasoning' and 'Literacy and Morphemes.'	£ £ £ £ £	⬜ ⬜ ⬜ ⬜ ⬜	+3

- Based on the EEF's trials of 140+ projects, the programmes we believe have promise and to which we have made further grants.
- NB Limited to those programmes the EEF has directly tested, but a good starting point.
- What evidence does the programme you choose have behind it?***



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1



Develop pupils' language capability to support their reading and writing

Purposeful speaking and listening activities support the development of pupils' language capability and provides a foundation for thinking and communication.

Purposeful activities include:

- reading books aloud and discussing them;
- activities that extend pupils' expressive and receptive vocabulary;
- collaborative learning activities where pupils can share their thought processes;
- structured questioning to develop reading comprehension;
- teachers modelling inference-making by thinking aloud; and
- pupils articulating their ideas verbally before they start writing.

EVIDENCE STRENGTH

VERY EXTENSIVE
EXTENSIVE
MODERATE
LIMITED
VERY LIMITED

see page 10

2



Support pupils to develop fluent reading capabilities

Fluent readers can read quickly, accurately, and with appropriate stress and intonation.

Fluent reading supports comprehension because pupils' cognitive resources are freed from focusing on word recognition and can be redirected towards comprehending the text.

This can be developed through:

- guided oral reading instruction—teachers model fluent reading of a text, then pupils read the same text aloud with appropriate feedback; and
 - repeated reading—pupils re-read a short and meaningful passage a set number of times or until they reach a suitable level of fluency.
- It is important to understand pupils' current capabilities and teach accordingly. Most pupils will need an emphasis on developing reading fluency, but some pupils may need a focus on more basic skills, such as decoding and phonological awareness.

EVIDENCE STRENGTH

VERY EXTENSIVE
EXTENSIVE
MODERATE
LIMITED
VERY LIMITED

see page 12

3



Teach reading comprehension strategies through modelling and supported practice

Reading comprehension can be improved by teaching specific strategies that they can apply both to monitor and overcome barriers to comprehension. These include:

- prediction;
- questioning;
- clarifying;
- summarising;
- inference; and
- activating prior knowledge.

The potential impact of these strategies is very high, but can be hard to achieve, since pupils are required to take greater responsibility for their own learning.

The strategies should be described and modelled before pupils practice the strategies with feedback. Support should then be gradually reduced as pupils take increasing responsibility.

Texts should be carefully selected to support the teaching of these strategies.

EVIDENCE STRENGTH

VERY EXTENSIVE
EXTENSIVE
MODERATE
LIMITED
VERY LIMITED

see page 14

4



Teach writing composition strategies through modelling and supported practice

Purpose and audience are central to effective writing. Pupils need to have a reason to write and someone to write for.

Writing can be thought of as a process made up of seven components:

- planning;
- drafting;
- sharing;
- evaluating;
- revising;
- editing; and
- publishing.

Effective writers use a number of strategies in the different stages of the writing process. Pupils' writing can be improved by explicitly teaching these strategies. For example, pupils' planning could be improved by teaching the strategies of goal-setting and activating prior knowledge.

The strategies should be described and modelled before pupils practice them with feedback. Support should then be gradually reduced as pupils take increasing responsibility.

EVIDENCE STRENGTH

VERY EXTENSIVE
EXTENSIVE
MODERATE
LIMITED
VERY LIMITED

see page 16

5



Develop pupils' transcription and sentence construction skills through extensive practice

A fluent writing style supports composition because pupils' cognitive resources are freed from focusing on handwriting, spelling, and sentence construction and can be redirected towards writing composition.

Extensive practice, supported by effective feedback, is required to develop fluent transcription skills.

Spelling should be explicitly taught and diagnostic assessment should be used to focus effort on the spellings that pupils are finding difficult.

Pupils should practice sentence-combining and other sentence construction techniques.

EVIDENCE STRENGTH

VERY EXTENSIVE
EXTENSIVE
MODERATE
LIMITED
VERY LIMITED

see page 18

6



Target teaching and support by accurately assessing pupil needs

High-quality assessment and diagnosis should be used to target and adapt teaching to pupils' needs.

Rapid provision of support is important, but it is critical to ensure it is the right support. Diagnostic assessment can be used to inform professional judgement about the best next steps. Diagnostic assessment makes teaching more efficient by ensuring that effort is not wasted on rehearsing skills or content that a pupil already knows well.

A range of diagnostic assessments are available and staff should be trained to use and interpret these effectively.

This approach can be used for high- and low-attaining pupils and for whole-class and targeted interventions.

EVIDENCE STRENGTH

VERY EXTENSIVE
EXTENSIVE
MODERATE
LIMITED
VERY LIMITED

see page 20

7



Use high-quality structured interventions to help pupils who are struggling with their literacy

Schools should focus first on developing core classroom teaching strategies that improve the literacy capabilities of the whole class. With this in place, the need for additional support should decrease. Nevertheless, it is likely that a small number of pupils will require additional support.

There is a strong and consistent body of evidence demonstrating the benefit of structured interventions for pupils who are struggling with their literacy. The first step should be to use accurate diagnosis of capabilities and difficulties to match pupils to appropriate interventions.

EVIDENCE STRENGTH

VERY EXTENSIVE
EXTENSIVE
MODERATE
LIMITED
VERY LIMITED

see page 22

Current and forthcoming guidance reports



Improving Literacy in Key Stage One

Published: 30th September, 2016


Key Stage 1



Improving Literacy in Key Stage Two

Published: 28th April, 2017

Key Stage 2



Preparing for literacy

Coming Soon: Autumn 2017

Early Years



Intermediate maths


Coming Soon: Autumn 2017

Key Stage 2




Digital Technology

Coming Soon: Autumn 2017



Developing independent learning

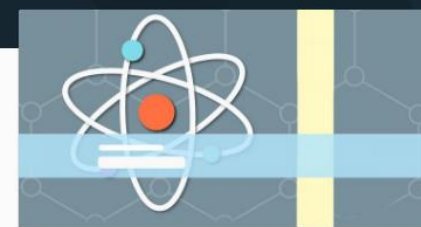
Coming Soon: Spring 2018



Literacy at the transition

Coming Soon: Spring 2018

Key Stage 2/3



Science

Coming Soon: 2018



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School Themes

Summaries of the evidence from the Teaching and Learning Toolkit and EEF projects on a selection of themes chosen in collaboration with teachers

School Themes

Introducing Themes	School Theme	No. of Projects
<p>The School Themes pull together evidence from the Teaching & Learning Toolkit and published EEF projects, focusing on ten high priority issues for schools. They provide greater depth to the evidence on common school challenges by linking together evidence in the Toolkit with key messages emerging from EEF projects and other resources. Taken together, they provide a rich picture of the developing evidence base on how to improve pupil attainment.</p> <p>The themes were developed in collaboration with schools in response to demand from teachers and school leaders about providing evidence around specific school challenges. Each section is not an exhaustive list of all the relevant EEF material, but a drawing together of the most relevant. They will be updated as new EEF and other evidence becomes available.</p>	L Literacy Evidence on literacy from the Teaching and Learning Toolkit alongside the findings from recent EEF projects.	26
	St Staff deployment & development Evidence on the effective development and deployment of staff from the Teaching and Learning Toolkit alongside the results from recent relevant EEF projects.	21
	Di Developing independent learning Evidence on developing independent learning from the Teaching and Learning Toolkit alongside the results from recent relevant EEF projects.	11
	Pe Pupil engagement & behaviour Evidence on improving attainment through engagement and behaviour from the Teaching and Learning Toolkit alongside results from recent relevant EEF projects.	8
	N Numeracy Evidence on numeracy from the Teaching and Learning Toolkit alongside the findings from recent EEF projects.	6
	F Feedback & monitoring pupil progress Evidence on feedback and monitoring pupil progress from the Teaching and Learning Toolkit alongside the results from recent relevant EEF projects.	5
	P Parental engagement Evidence on parental engagement from the Teaching and Learning Toolkit alongside the results from recent relevant EEF projects.	4
	C Character Evidence on character from the Teaching and Learning Toolkit alongside the results from recent relevant EEF projects.	3
	So School organisation Evidence from the Teaching and Learning Toolkit and Projects on the structure of the school day, summer schools, the size and make-up of individual classes.	3
	S Science Evidence on science from the Teaching and Learning Toolkit alongside the findings from recent EEF projects.	2

Bringing
it all together:

‘School
themes’
focus on
10 high
priority
issues
for
schools.



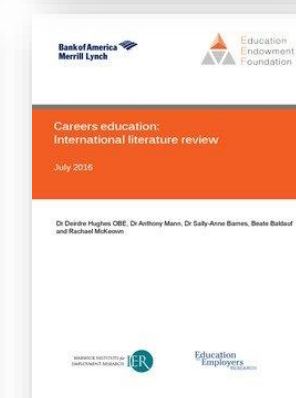
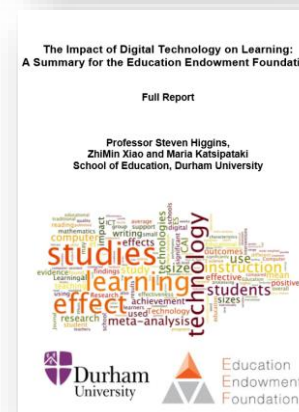
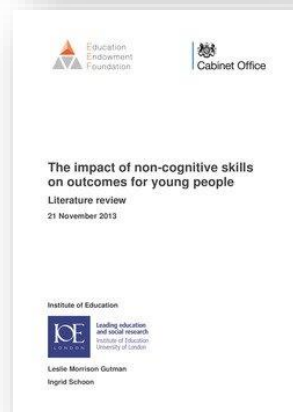
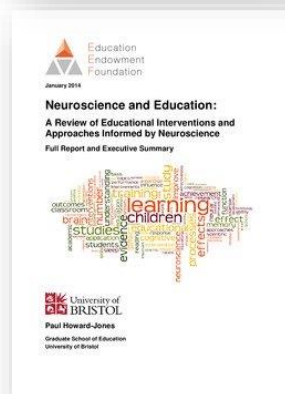
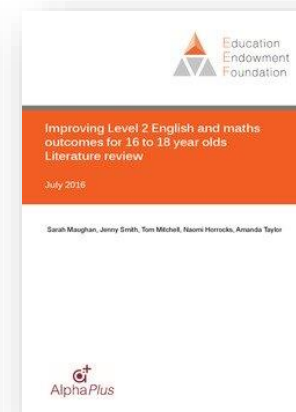
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Plus other EEF evidence reviews...



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The Institute for Effective Education (IEE) is an independent charity working with schools to promote the use of evidence-based practice.



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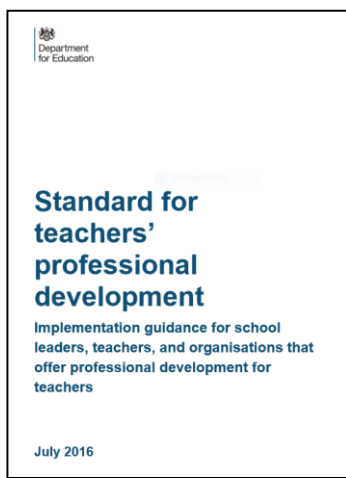
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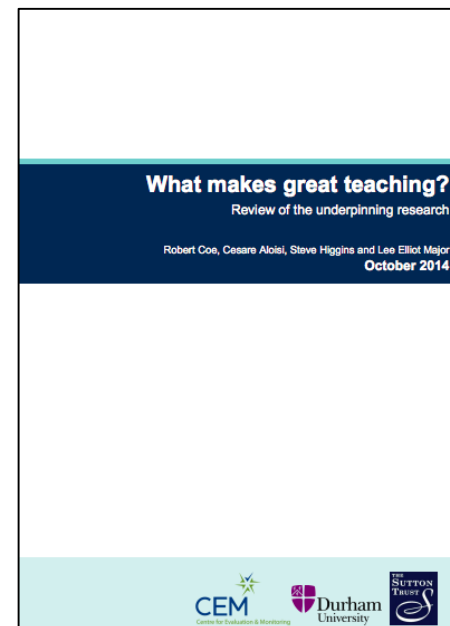
Other resources



The Teacher Development Trust's review summarises what constitutes effective professional development for teachers. <http://tdtrust.org/about/dgt>

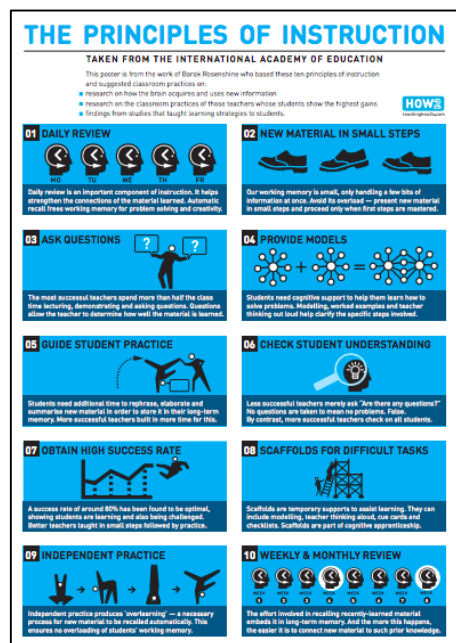


The DfE Standards sets out a number of expectations about professional development.
<https://www.gov.uk/government/publications/standard-for-teachers-professional-development>



The Sutton Trust's report into What makes great teaching:

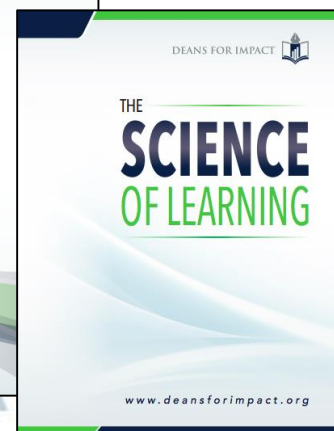
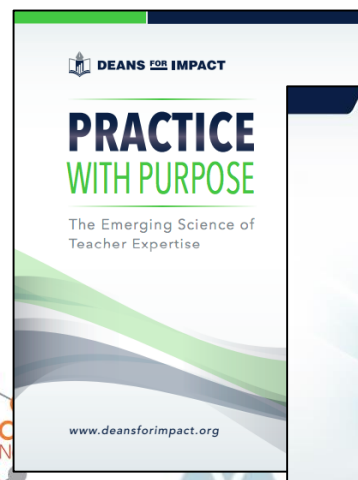
<https://www.suttontrust.com/wp-content/uploads/2014/10/What-Makes-Great-Teaching-REPORT.pdf>



The Principles of Instruction:
 Original document:
http://www.ibe.unesco.org/fileadmin/user_upload/Publications/Educational_Practices/EdPractices_21.pdf

Graphical document:
https://teachinghow2s.com/docs/HOW2_Poster_Principles_of_Instruction.pdf

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Deans for Impact

<https://deansforimpact.org/resources/the-science-of-learning/>

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Quick quiz: How well do
you know your
evidence?



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Technology

1. ICT enhances learning if it
 1. motivates and engages students
 2. reduces teacher workload
 3. promotes activities that are aligned with subject content
 4. provides new ways of thinking about problems
2. Which of these approaches is best supported by evidence of promoting learning
 - a) Giving all students iPads
 - b) Using an interactive whiteboard
 - c) Using technology for short bursts of focused activity



What the evidence tells us about digital technology:



“More effective schools and teachers are more likely to use digital technology effectively”

“It is not whether technology is used or not which makes a difference but how well it is used to support effective teaching and learning”

EEF Review: The Impact of Digital Technologies on Learning.



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Testing



2. Which of these are good times to test students' understanding of a topic?

- a) Never: testing creates anxiety that undermines learning
- b) Before they have learnt it: find out what they already know and cue important material
- c) Immediately after teaching it: force them to retrieve the learning while it is fresh in memory
- d) A few weeks after teaching it: build in a delay to allow forgetting

3. After studying and learning a topic, students remember most if they then spend an equivalent amount of time

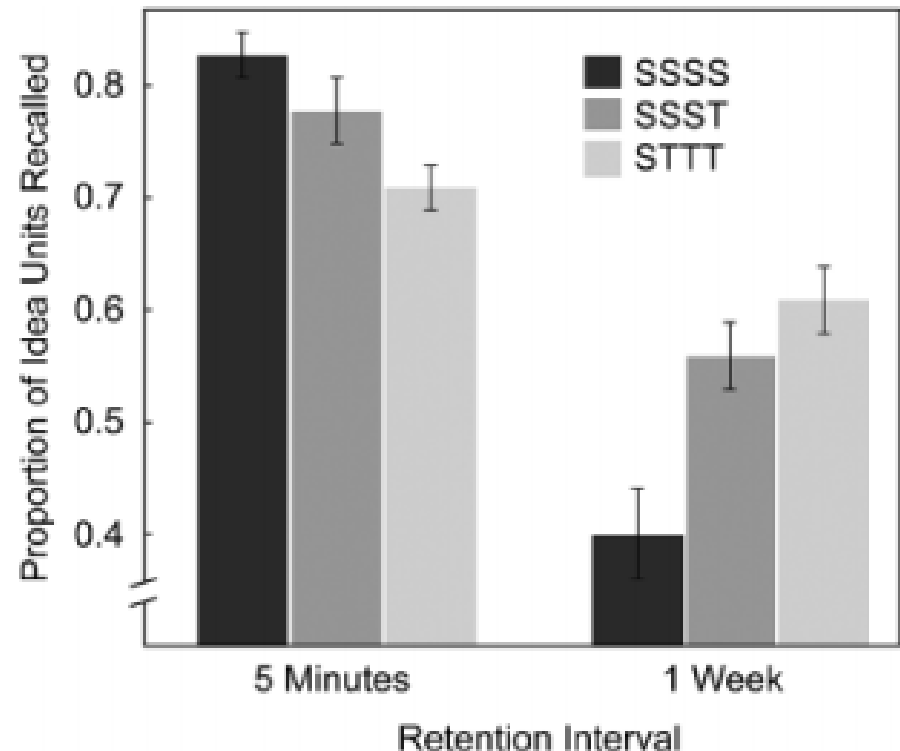
- a) Studying it again in a single session
- b) Studying it again in shorter, multiple sessions
- c) Studying it again, and then being tested on it
- d) Repeatedly being tested on it, with no further study



What the evidence tells us about testing:



“Testing is a powerful means of improving learning, not just assessing it”.



Roediger, H. L., &
Karpicke, J. D. (2006):
Test-enhanced learning



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Learning styles

4. A person's learning style determines

- a) which part of the brain the individual uses during a learning task
- b) how well they can learn information presented in different modalities (visual, auditory, kinaesthetic)
- c) nothing about their performance on learning tasks

5. Research shows that

- a) People learn best when instruction matches their individual learning style, e.g., auditory learners are taught using an auditory mode of instruction
- b) People learn best when instruction forces learners to use learning styles different from their preferred style, e.g., auditory learners are taught using a visual mode of instruction
- c) There is no connection between learning style and how well people learn

From [Cerbin, 2010](#)



What the evidence tells us about learning styles:



“The contrast between the enormous popularity of the Learning Styles approach within education and the lack of credible evidence for its utility is both striking and disturbing”.

Cerbin: Ill conceived ideas about learning.



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1. We do that already (don't we?)

- Reviewing previous learning
- Setting high expectations
- Using higher-order questions
- Giving feedback to learners
- Having deep subject knowledge
- Understanding student misconceptions
- Managing time and resources
- Building relationships of trust and challenge
- Dealing with disruption



2. Do we always do that?

- Challenging students to identify the reason why an activity is taking place in the lesson
- Asking a large number of questions and checking the responses of all students
- Raising different types of questions (i.e., process and product) at appropriate difficulty level
- Giving time for students to respond to questions
- Spacing-out study or practice on a given topic, with gaps in between for forgetting
- Making students take tests or generate answers, even before they have been taught the material
- Engaging students in weekly and monthly review



3. We don't do that (hopefully)

- Use praise lavishly
- Allow learners to discover key ideas for themselves
- Group learners by ability
- Encourage re-reading and highlighting to memorise key ideas
- Address issues of confidence and low aspirations before you try to teach content
- Present information to learners in their preferred learning style
- Ensure learners are always active, rather than listening passively, if you want them to remember



The #1 fact about ‘what works’:

It doesn't always work



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Summary

- Understanding the research helps
 - Inform better decisions
 - Develop better theory of teaching and learning
- But whilst research can inform your decisions, it can't give you all the answers
- Professional learning needs support, time, expertise, etc (just like other learning)
- 'What works' may not work, so monitor and evaluate
- How can we support you?



How can we help you?

- Signpost you in right direction towards reliable evidence to inform your own bids (SSIF and TLIF).
- Offer high-quality reliable training based on the latest evidence.
- Advise and support with the design and implementation teacher-led research, including RCTs.
- Offer support in grant applications to the IEE's 'Innovation Evaluation' grants.
- Signpost to relevant research which will help support you in your school-improvement planning.





Contact details



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