# How does your digital pedagogy transform your students' learning?



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**AMICAL** 2020

# **Bloom's Taxonomy**



### Produce new or original work

Design, assemble, construct, conjecture, develop, formulate, author, investigate

evaluate

### Justify a stand or decision

appraise, argue, defend, judge, select, support, value, critique, weigh

analyze

Draw connections among ideas

differentiate, organize, relate, compare, contrast, distinguish, examine, experiment, question, test

apply

Use information in new situations

execute, implement, solve, use, demonstrate, interpret, operate, schedule, sketch

understand

Explain ideas or concepts

classify, describe, discuss, explain, identify, locate, recognize, report, select, translate

remember

Recall facts and basic concepts define, duplicate, list, memorize, repeat, state

# Survey

# "And? Have they learnt anything?"

# True or false?

- Reducing class size is one of the most effective ways to increase learning [evidence]
- 2. Differentiation and 'personalised learning' resources maximise learning [evidence]
- 3. Generous praise encourages learners and helps them persist with hard tasks [evidence]
- 4. Technology supports learning by engaging and motivating learners [evidence]
- 5. The best way to raise attainment is to enhance motivation and interest [evidence]



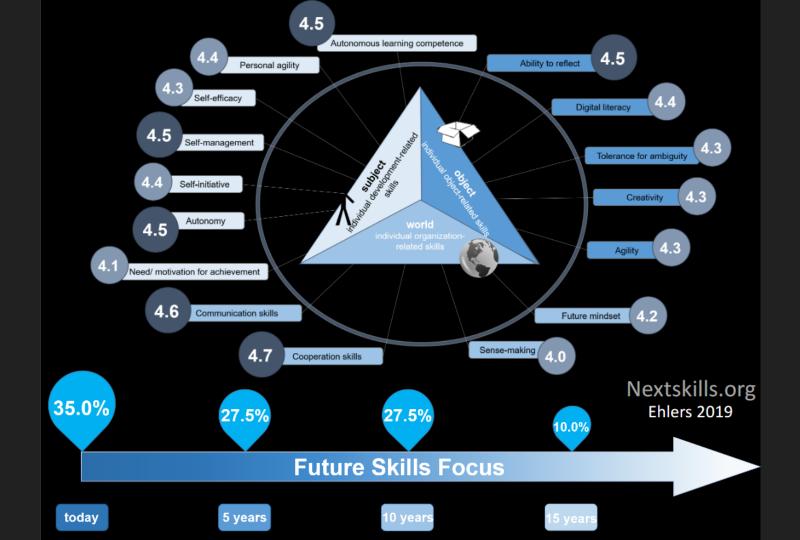


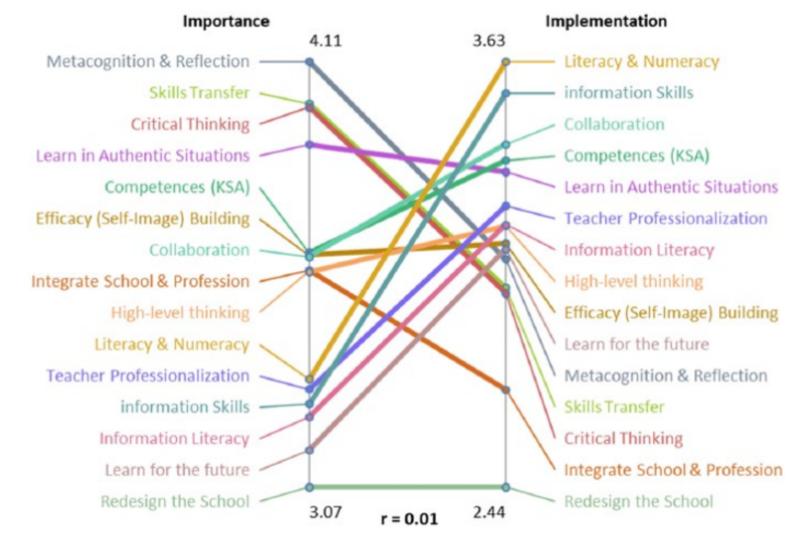
## **Poor Proxies for Learning**

## (Easily observed, but not really about learning)

- 1. Students are busy: lots of work is done (especially written work)
- 2. Students are engaged, interested, motivated
- 3. Students are getting attention: feedback, explanations
- 4. Classroom is ordered, calm, under control
- 5. Curriculum has been 'covered' (ie presented to students in some form)
- 6. (At least some) students have supplied correct answers (whether or not they really understood them or could reproduce them independently)

www.educationendowmentfoundation.org.uk/toolkit Impact vs cost Most promising for raising attainment gain) 8 May be Feedback worth it Meta-cognitive (months Peer tutoring Early Years Homework 1-1 tuition (Secondary) Size Collaborative Behaviour Effect Small gp Phonics Parental tuition Smaller involvement **ICT** classes Social Summer Individualised After schools Small learning Teaching Mentoring Homework school effects / assistants (Primary) Performance >high cost Aspirations Ability grouping pay £0 £1000 Cost per pupil  $\sim$ Durham University Centre for Evaluation & Monitoring





#### **Central Asia**

- Role of industry
- Changes in curriculum
- Self-learning
- General Knowledge
- Language and communication skills
- Experiential learning
- Digital Literacy
- Personal skills/ values
- Leadership
- Teachers' qualification
- Creative thinking
- Critical thinking
- Emotional intelligence
- Career
- Humanities
- Motivation



