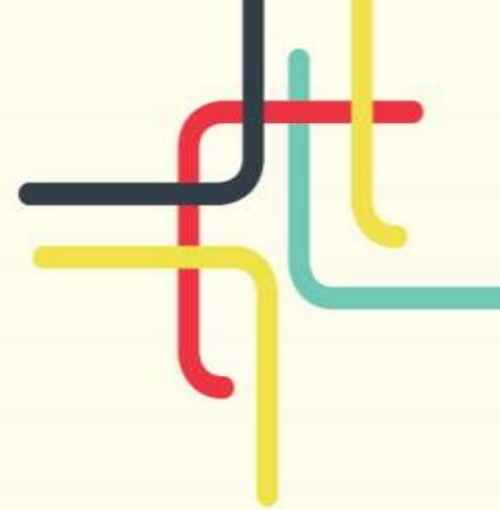


Partner Schools
Global Network

SCHOOLS NOW! 2018

Innovation in Education
(System, School and Classroom)





Education in the age of Artificial Intelligence

Dr Junaid Mubeen

Director of Education, Whizz Education

@fjmubeen

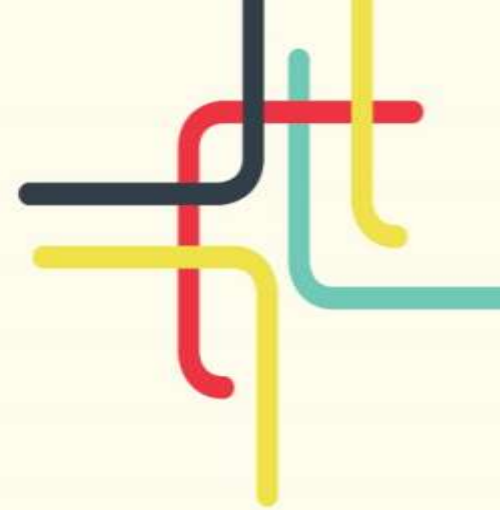


The mathematician of 2018

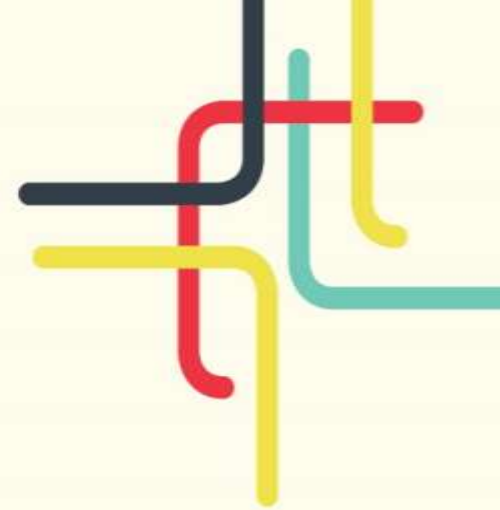


The next thirty minutes

- Putting education before technology
- Using AI for personalised learning
- Augmenting teachers' practice



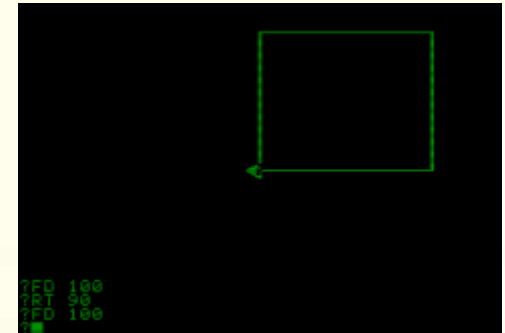
We've been here before



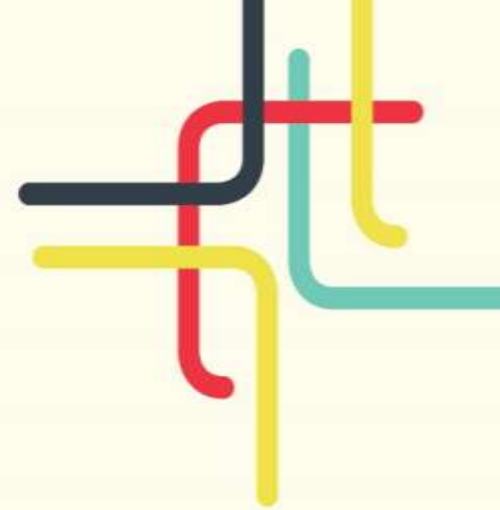
“Books will soon be obsolete in our schools...Our school system will be completely changed in ten years.”



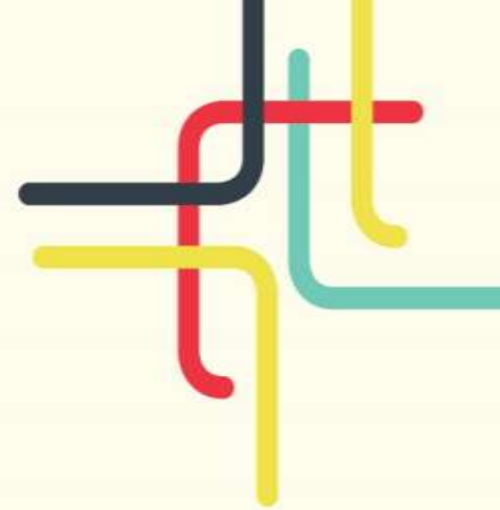
A brief history of personalised learning



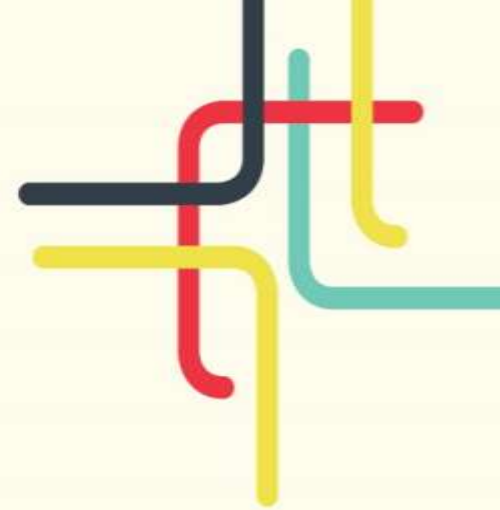
A brief history of personalised learning



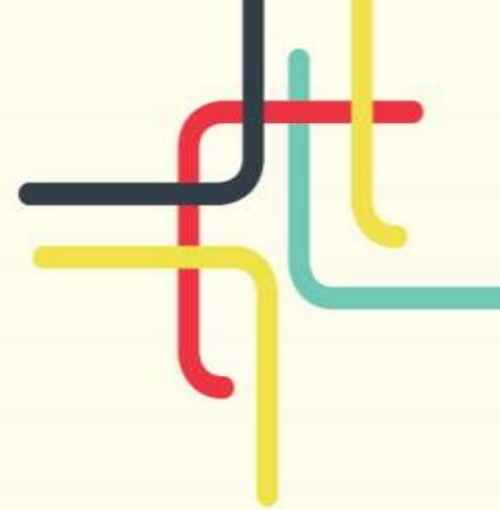
The 'typical' classroom



The consequences of shaky foundations



Key Point 1: A two-fold problem

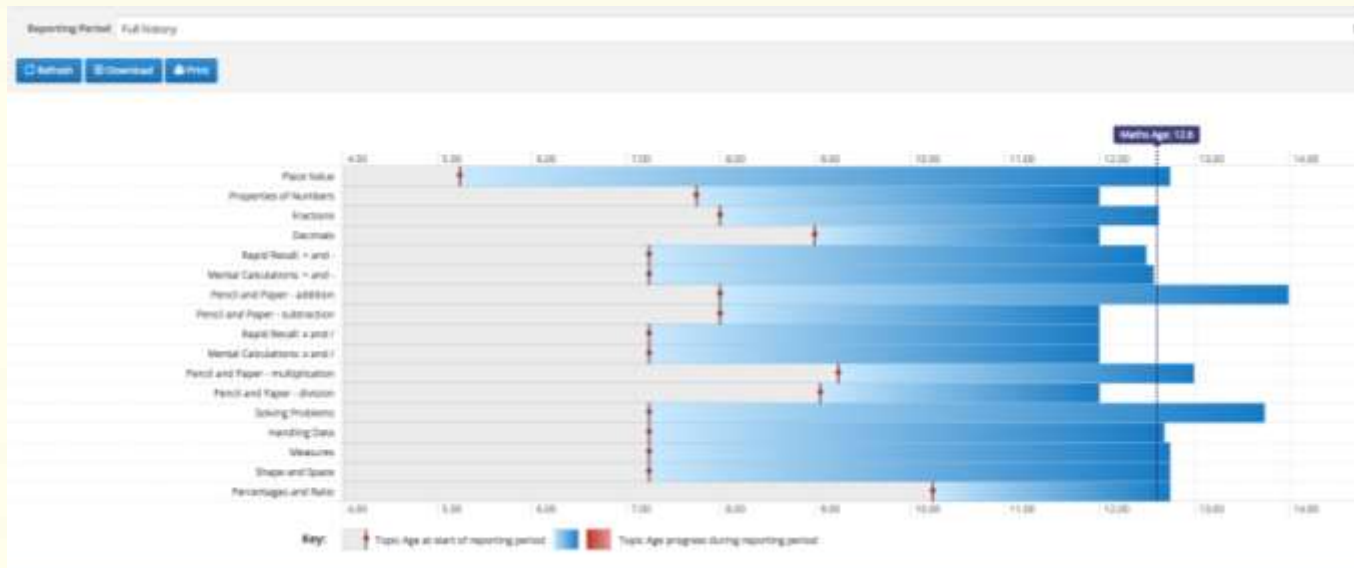
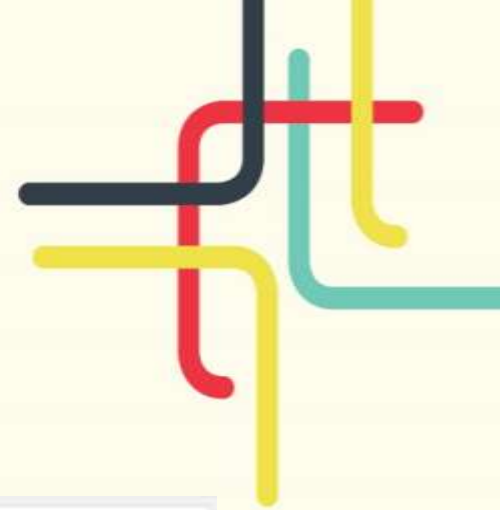


Address every learner's individual needs...

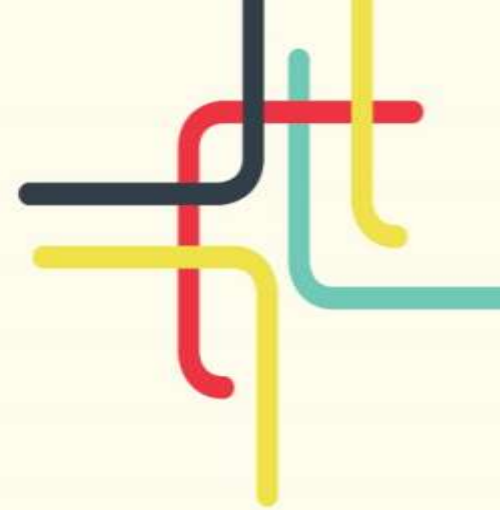
... while reducing teachers' workload.



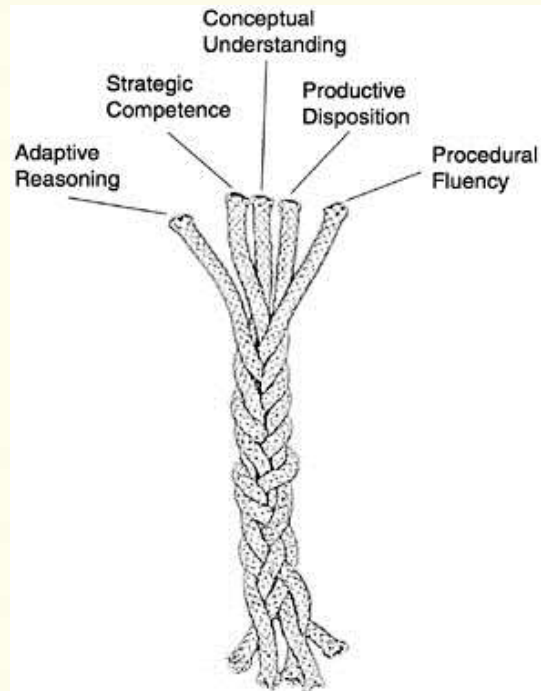
How to simulate a human tutor



Look inside the black box



Limits of computer-assisted instruction



Key Point 2: What AI can('t) do



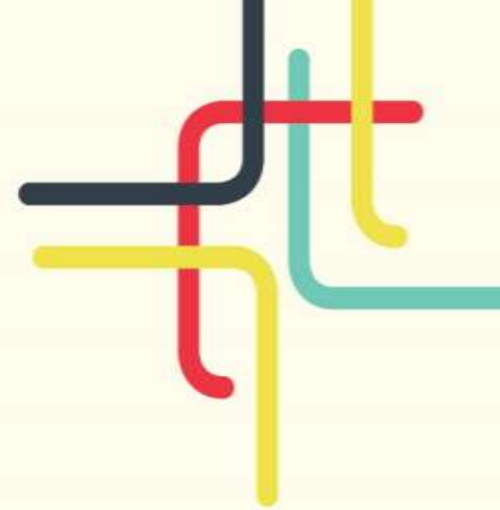
AI-driven tutors afford systematic knowledge transfer at scale...

...but only represent one dimension of learning and teaching.



Can you make 9000?

	TH	H	T	O
	1	2	3	4
+	1	2	3	4
+	1	2	3	4
+	1	2	3	4

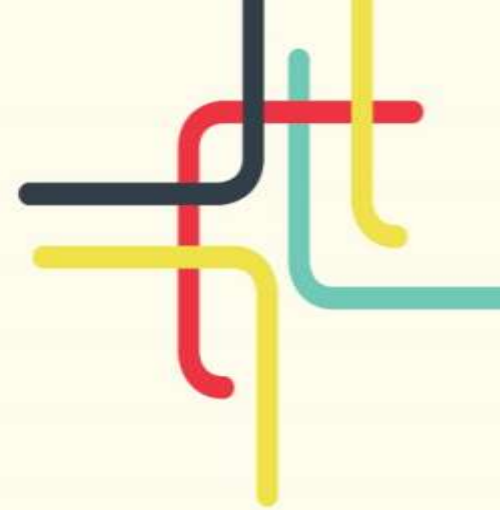


Can you make 9000?

	TH	H	T	O
	1	2	3	4
+	1	2	3	4
+	1	2	3	4
+	1	2	3	4
<hr/>				
	4	9	3	6
<hr/>				

	TH	H	T	O
	4	3	2	1
+	1	2	3	4
+	1	2	3	4
+	1	2	3	4
<hr/>				
	8	0	2	3
<hr/>				

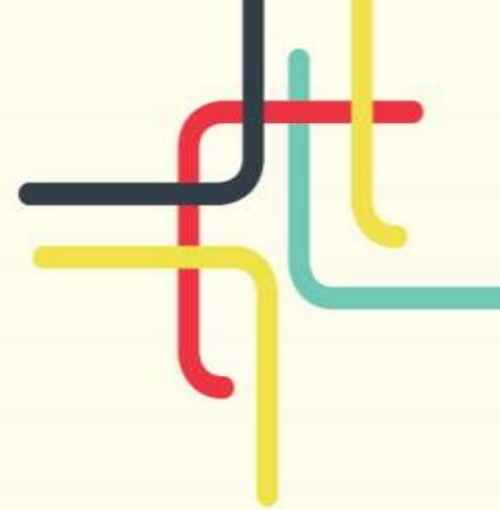
The one question every
teacher must ask



Are you maximising
your face-to-face
time with students?



Shifting teachers' effort



Marking ⇒ Planning

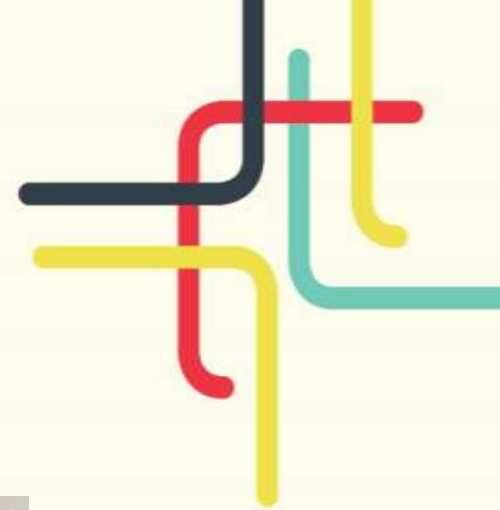
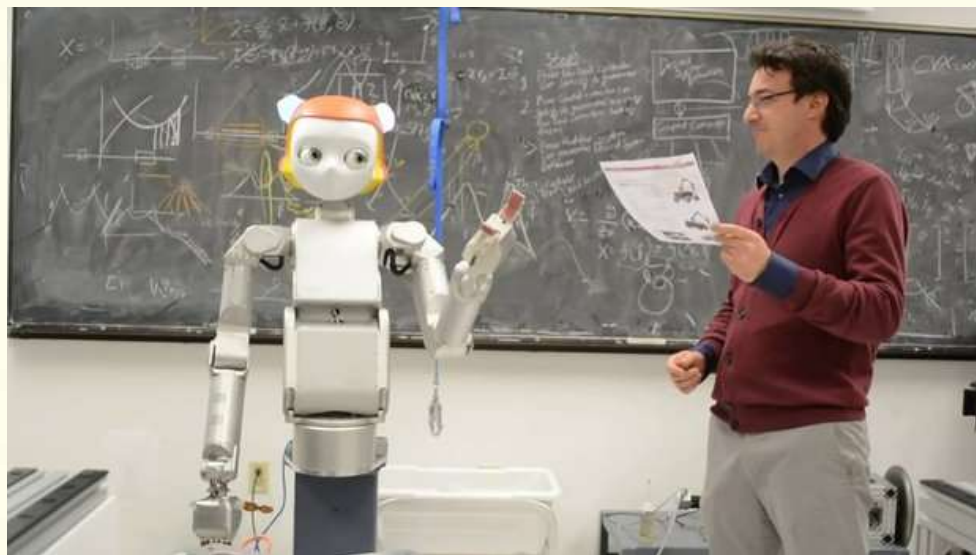
Direct instruction ⇒ Guided practice

Assessing ⇒ Intimate feedback

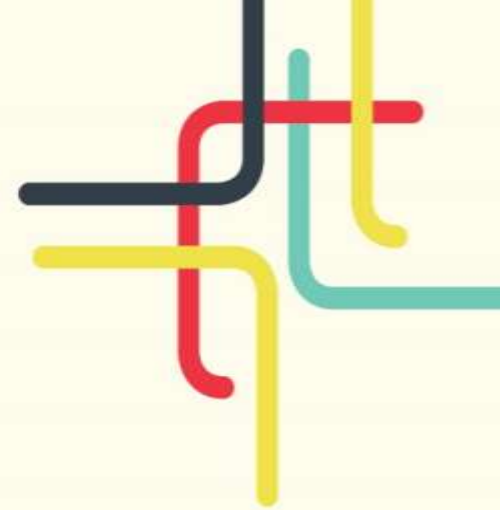
Teaching to the average ⇒ Addressing every learner's needs



More than a virtual tutor



Key Point 3: The real meaning of personalised learning



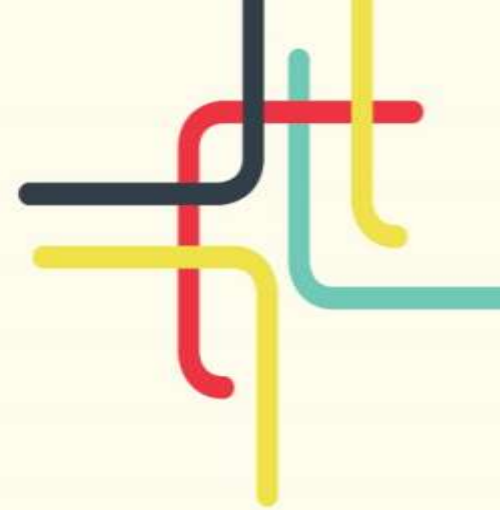
Personalised learning must place *relationships* at its core.

1:1 tutoring is only one part of the learning experience, and must enable richer classroom interactions.



Summary of key points

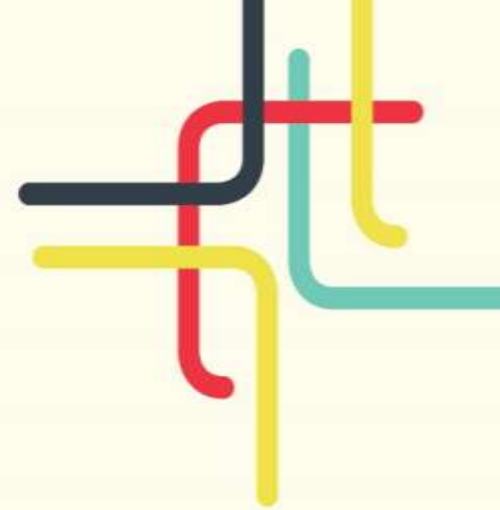
- The problem that AI is poised to address is the spread of learning needs, combined with teacher workload.
- AI-enabled tutors afford systematic transfer of core knowledge/skills only.
- Personalised learning must place *relationships* at its core.



A cautionary tale



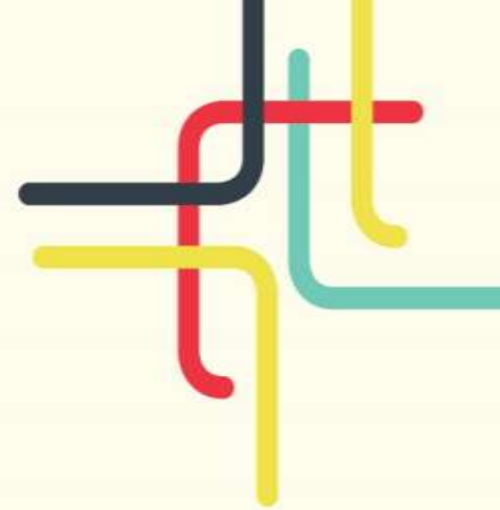
The teacher of 2018



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Thank you and stay in touch



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