TSST 2015-16

Improving Learning in Mathematics: the Standards Box

Dave Miller

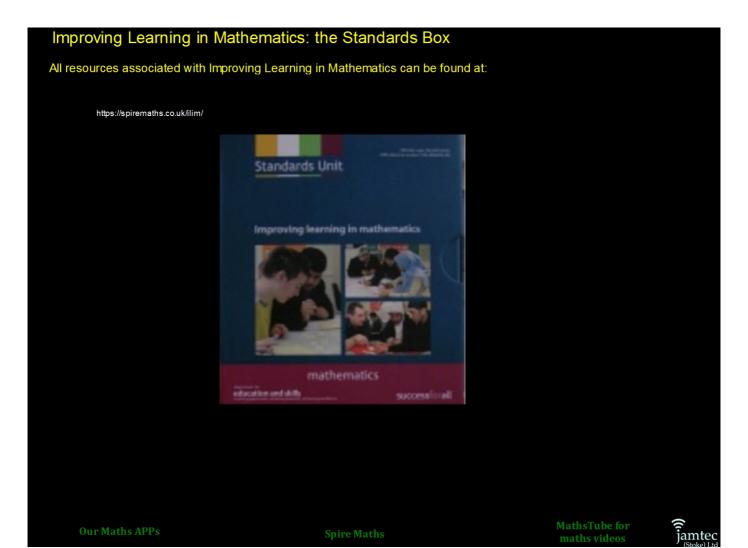
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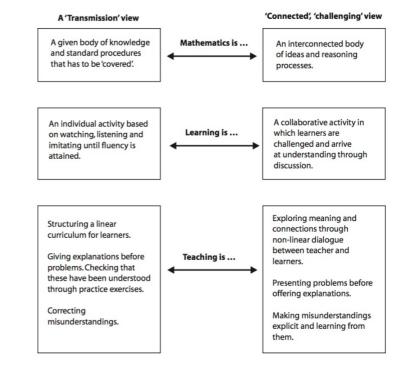


Improving learning in mathematics: challenges and strategies

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Some underlying principles

- (i) Build on the knowledge learners bring to sessions
- (ii) Expose and discuss common misconceptions
- (iii) Develop effective questioning
- (iv) Use cooperative small group work
- (v) Emphasise methods rather than answers
- (vi) Use rich collaborative tasks
- (vii) Create connections between mathematical topics
- (viii) Use technology in appropriate ways



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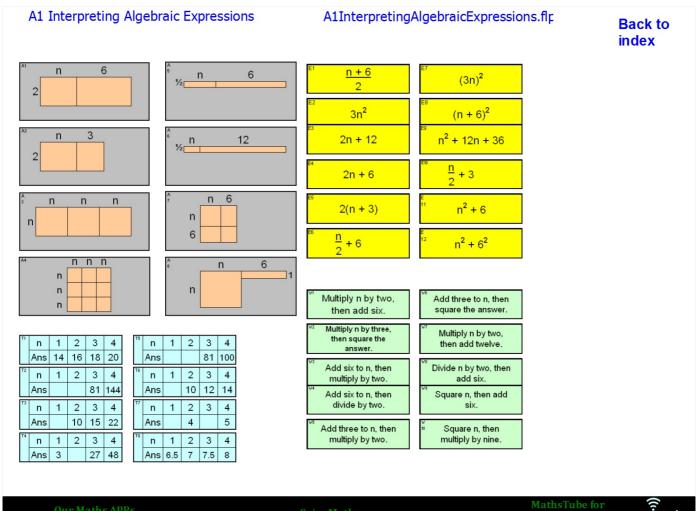
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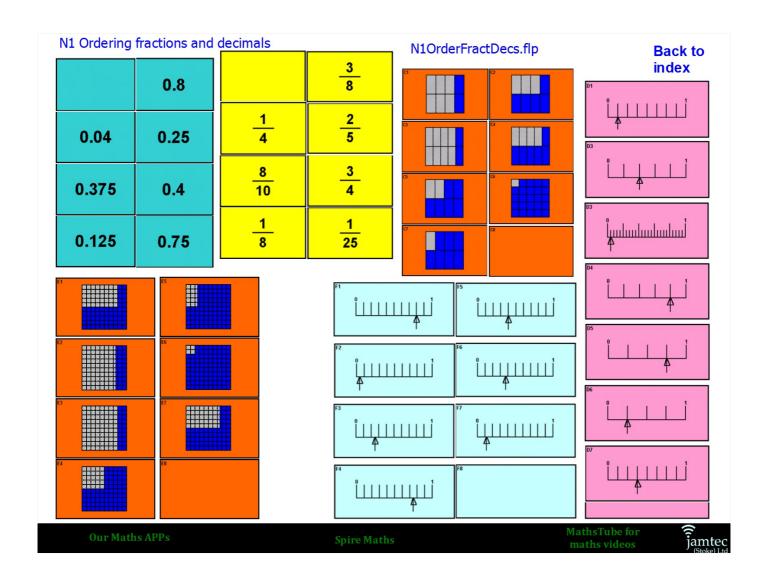
All resources associated with Improving Learning in Mathematics can be found at:

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A1 Interpreting Algebraic Expressions N1 Ordering fractions and decimals S1 Ordering probabilities SS1 Classifying shapes

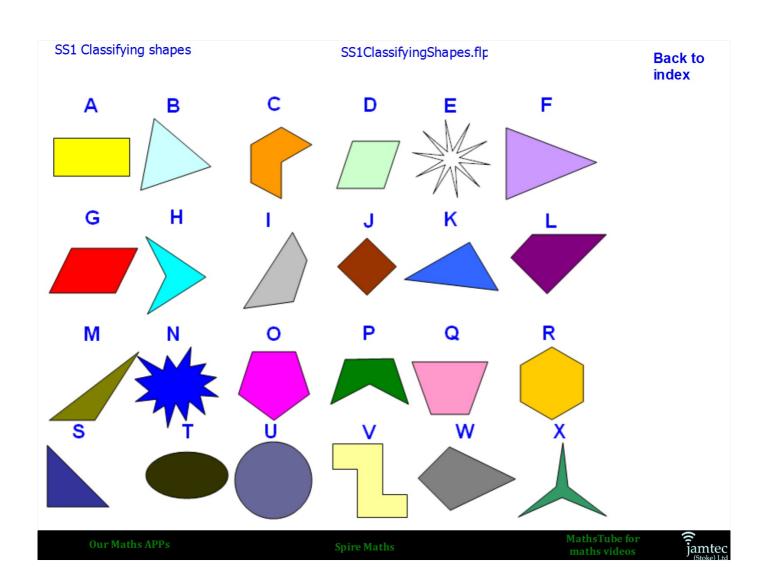
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Certain	Stoke will win the championship this season Football World Cup	ome tonight 0.33	0
Impossible	If I flick a coin I will get a England will win the next heads Football World Cup todays' lesson	will attend 0.8	0.25
Fairly likely	lan will arrive on time today I will see a flying pig on the way home tonight All the pupils silent during th		1
Equally likely	Manchester United will the Champions League I will become Prime Petrol will reac within the next	0.45 ch £1 a litre 2 months	0.88
Not very likely	Liverpool will do the Ryan will do his Treble homework all next week	0.75	0.3
Very likely	An English space rocket will land on the moon in the next 5 years		

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