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Identifying High Potential Learners in Mathematics



Charity No: 313182

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Summary

This advice sheet contains a checklist of criteria, originally compiled by the QCDA (Qualifications and Curriculum Development Agency), to help with identifying learners who are demonsrating high learning potential in mathematics. It is aimed at secondary school subject teachers, as well as high learning potential lead teachers.

Below is a list of the characteristics commonly shown by learners who are demonstrating high learning potential in mathematics. A learner need not be showing all of these to be considered a high potential learner, but would most likely be demonstrating a majority of them.

Learners who show high learning potential in mathematics:

Learn and understand mathematical ideas quickly
Work systematically and accurately
Are more analytical
Think logically and see mathematical relationships
Make connections between the concepts they have learned
Identify patterns easily
Apply their knowledge to new or unfamiliar contexts
Communicate their reasoning and justify their methods
Ask questions that show clear understanding of, and curiosity about, mathematics
Take a creative approach to solving mathematical problems
Sustain their concentration throughout longer tasks and persist in seeking solutions
Are more adept at posing their own questions and pursuing lines of enquiry

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Further Information

http://nrich.maths.org/5713	Working with Highly Able Mathematicians on the Nrich Maths website
http://webarchive.nationalarchives.gov.uk/20110 809101133/http://nsonline.org.uk/node/175140	Archived National Strategies Module 14: Gifted and talented provision in mathematics
https://www.tes.co.uk/article.aspx?storyCode=6 080848	TES gifted and talented secondary maths resources
Meeting the Needs of Your Most Able Pupils in Mathematics by Lynne McClure and Jennifer Piggott	Book published by David Fulton with guidance on identification, planning, differentiation and support. Also has CD with lesson plans.
Extension Mathematics: Year 7: Alpha by Tony Gardinier	This book consists of tightly focused sets of problems, with each set devoted to core ideas from the Framework but approached in a way that cultivates more profound mathematical thinking.

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To give feedback on this advice sheet, please go to: www.surveymonkey.com/s/advicesheetfeedback