Subject	Identifying Highly Able Pupils
Science	Pupils who are highly able in science are likely to:
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	be imaginative
	read widely, particularly science or science fiction
	 have scientific hobbies and/or be members of scientific clubs and
	societies
	 be extremely interested in finding out more about themselves and
	things around them
İ	enjoy researching obscure facts and applying scientific theories,
	ideas and models when explaining a range of phenomena
	 be able to sustain their interest and go beyond an obvious answer to underlying mechanisms and greater depth
	be inquisitive about how things work and why things happen (they
	may be dissatisfied with simplified explanations and insufficient
	detail)
	ask many questions suggesting that they are willing to hypothesise
	and speculate
	use different strategies for finding things out (practical and
	intellectual) they may be able to miss out steps when reasoning
	the answers to problems
	think logically, providing plausible explanations for phenomena
	(they may be methodical in their thinking, but not in their recording)
	 put forward objective arguments, using combinations of evidence
	and creative ideas, and question other people's conclusions
	(including their teacher's!)
	 decide quickly how to investigate fairly and manipulate variables
	 consider alternative suggestions and strategies for investigations
	 analyse data or observations and spot patterns easily
	strive for maximum accuracy in measurements of all sorts, and take
	pleasure, for example, from reading gauges as accurately as
	possible (sometimes beyond the accuracy of the instrument)
=	make connections quickly between facts and concepts they have
	learned, using more extensive vocabulary than their peers
	think abstractly at an earlier age than usual and understand models
	and use modelling to explain ideas and observations. Pupils may
	be willing to apply abstract ideas in new situations; pupils may be able to use higher-order mathematical skills such as proportionality,
	ratio and equilibrium with some complex abstract ideas when
	offering explanations
	understand the concepts of reliability and validity when drawing
	conclusions from evidence
	be easily bored by over-repetition of basic ideas
	enjoy challenges and problem solving, while often being self-critical
i	enjoy talking to the teacher about new information or ideas
	be self-motivated, willingly putting in extra time (but they may
	approach undemanding work casually and carelessly)
	show intense interest in one particular area of science (such as
2 2400	astrophysics), to the exclusion of other topics.