

Commentary on candidate 7 evidence

The candidate evidence used in this workshop has achieved the following marks for each section of the coursework assessment task.

Section	Marks available	Marks awarded	Comments	
1 Aim	1	1	The candidate was awarded 1 mark because they produced a clear statement that outlined that they were investigating the relationship between particle size and permeability.	
2 Underlying environmental science	3	3	The candidate was awarded 3 marks for the following: <ul style="list-style-type: none"> ◆ Accurate description of permeability. ◆ Accurate description of porosity. (Not mentioned in the aim but fundamental to an understanding of pore space size and permeability.) ◆ Attempt to outline the significance of permeability by linking it with increasing urbanisation and flooding, and proper drainage in agriculture. 	
3 Data collection and handling	6	a	1	Although it could be debated that the candidate has not demonstrated an ability to summarise the description of their experiment, it was felt that it was brief enough to be awarded 1 mark.
		b	1	One mark was awarded because each particle size was tested 5 times to produce a reliable result.
		c	0	No marks were awarded because the candidate did not use the correct SI unit for time ('secs' not 's'). If the candidate had used 's' they would have been awarded 1 mark.
		d	0	The candidate was not awarded a mark because they incorrectly rounded up their average to a whole number.

		e	1	The candidate was awarded 1 mark as the source was directly linked to the candidate's experiment.
		f	1	The candidate was awarded 1 mark as they provided a full URL for the internet source used.
4 Graphical presentation	4	a	1	The candidate was awarded 1 mark because a bar graph was an appropriate way to process this collected data.
		b	1	One mark was awarded, as the scales were suitable.
		c	0	Although the candidate was awarded 0 marks for making the same error in the data collection and handling part (c) section, no mark can be awarded because the candidate has used 'secs' on their y-axis label instead of 's'.
		d	1	The candidate was awarded 1 mark.
5 Analysis	1	0		The candidate was awarded 0 marks because they suggested that the clay in the internet source would drain in a similar way to the small gravel they had used in their experiment.
6 Conclusion	1	1		The candidate was awarded 1 mark because a clear trend was identified which directly related to the aim of the experiment.
7 Evaluation	2	2		The candidate was awarded 2 marks because they identified a factor that would make the experimental result more accurate, and identified an issue that had arisen during the experiment and how this had been rectified.
8 Structure	2	a	1	The candidate was awarded 1 mark.
		b	1	The candidate was awarded 1 mark.
Total	20	16		