SMART EXAM RESOURCES 9702 PHYSICS TOPIC QUESTIONS

TOPIC: PHYSICAL QUANTITIES AND UNITS SUB-TOPIC: ERRORS AND UNCERTAINITIES SUB-SUB-TOPIC: AVOIDING ERRORS

1	A metal wire has a cross-section of diameter approximately 0.8 mm.				
	(a)	Sta	te what instrument should be used to measure the diameter of the wire.		
				[1	
	(b)	Sta	te how the instrument in (a) is		
		(i)	checked so as to avoid a systematic error in the measurements,		

Mark Scheme:

1	(a) micrometer/screw gauge/digital callipers			
	(b) (i) look/check for zero error	B1	[1	