SMART EXAM RESOURCES SUBJECT: PHYSICS

TOPIC: SCALARS AND VECTORS SET-1-QP-MS

1	Speed is a scalar quantity and velocity is a vector quantity.	
	State the names of one other scalar quantity and one other vector quantity.	
	scalar quantity	
	vector quantity	
		- 1/

a scalar quantity distance, time, mass, energy, temperature	B1	
a vector quantity force, weight, acceleration, momentum, electric field strength, gravitational field strength	B1	

2	2	Some physical quantities are scalars and other physical quantities are vectors.	
	((a) State how a vector quantity differs from a scalar quantity.	
			[1

(a) it / a vector has a direction B1

3 Some physical quantities are scalars and other physical quantities are vectors.

Circle the vector quantities in the list.

acceleration energy mass momentum temperature time speed velocity

[2]

ŀ	two / three vectors and no more than one other quantity underlined		
	acceleration and momentum and velocity underlined and no others	A 1	

[2]

65.	B2
any two from: acceleration / deceleration, gravitational field strength, impulse, momentum, velocity, weight	B2
any two from: acceleration / deceleration, gravitational field strength, impulse, momentum, velocity, weight	B2

•	711010	oo is a vector quartity.	
	(a) (i)	State two features of a vector quantity.	
		1	
		2	
			[2]

	7	
(a)(i)		B2
	magnitude or size	B1
	direction	B1