

**SMART EXAM RESOURCES**  
**9702 PHYSICS TOPIC QUESTIONS**  
**TOPIC: PHYSICAL QUANTITIES AND UNITS**  
**SUB-TOPIC: SCALARS AND VECTORS**  
**SUB-SUB-TOPIC: EXAMPLES OF SCALARS AND VECTORS**  
**SET-2-QP-MS**

- 1 (a) A list of quantities that are either scalars or vectors is shown in Fig. 1.1.

quantity	scalar	vector
distance	✓	
energy		
momentum		
power		
time		
weight		

**Fig. 1.1**

Complete Fig. 1.1 to indicate whether each quantity is a scalar or a vector.

One line has been completed as an example.

[2]

**MARKING SCHEME:**

scalars: energy, power and time

A1

vectors: momentum and weight

A1 [2]

**2** State whether each of the following is a vector quantity or a scalar quantity.

1. temperature

.....[1]

2. acceleration of free fall

.....[1]

3. electrical resistance

.....[1]

**MARK SCHEME:**

1. temperature: scalar
2. acceleration: vector
3. resistance: scalar

B1 [1]  
B1 [1]  
B1 [1]