



Info Ekstra

**1.1 Kuantiti Fizik/ Physical Quantities**Isi tempat kosong/ *Fill in the blanks.*

- 1 Takrif kuantiti fizik, kuantiti asas dan kuantiti terbitan. [SP 1.1] [TP 1]

*Definition of physical quantity, base quantity and derived quantity.*

- (a) Kuantiti yang boleh diukur dikenali sebagai \_\_\_\_\_.

*A quantity that can be measured is known as a \_\_\_\_\_.*

- (b) \_\_\_\_\_ ialah kuantiti yang tidak boleh ditakrifkan dengan kuantiti asas yang lain.

*A \_\_\_\_\_ is a quantity that cannot be expressed in terms of other base quantities.*

- (c) Kuantiti terbitan ialah kuantiti yang diterbitkan daripada gabungan kuantiti \_\_\_\_\_ melalui \_\_\_\_\_ dan \_\_\_\_\_ atau kedua-duanya.

*Derived quantities are physical quantities which are derived from a combination of \_\_\_\_\_ quantities through \_\_\_\_\_ or \_\_\_\_\_ or both.*

- 2 Senaraikan tujuh kuantiti asas yang terpilih dan unit SI terbabit. [SP 1.1] [TP 1]

*List the seven chosen base quantities and their corresponding SI units.*

<b>Kuantiti Asas/ Base Quantities</b>		<b>Unit Asas (SI)/ Base Unit (SI)</b>	
<b>Nama/ Name</b>	<b>Simbol/ Symbol</b>	<b>Nama/ Name</b>	<b>Simbol/ Symbol</b>
Panjang/ Length	<i>l</i>	meter/ metre	
Jisim/ Mass	<i>m</i>		kg
Masa/ Time	<i>t</i>		s
Suhu/ Temperature	<i>T</i>	Kelvin	
Arus/ Current	<i>I</i>		A
Kuantiti bahan/ Quantity of substance	<i>n</i>		mol
Keamatan cahaya/ Luminous intensity	<i>I<sub>v</sub></i>	candela	

- 3 Terbitkan kuantiti-kuantiti berikut. [SP 1.3] [TP 3]

*Derive the following quantities.*

<b>Kuantiti terbitan</b> <i>Derived quantity</i>	<b>Simbol</b> <i>Symbol</i>	<b>Hubungan dengan kuantiti asas</b> <i>Relationship with base quantities</i>	<b>Unit Terbitan (nama khas)</b> <i>Derived Unit (special name)</i>
Isi padu <i>Volume</i>	<i>V</i>	Panjang × Panjang × Panjang <i>Length × Length × Length</i>	
Ketumpatan <i>Density</i>	<i>ρ</i>	<i>Jisim/ Mass</i> Isi padu/ <i>Volume</i>	
Pecutan <i>Acceleration</i>	<i>a</i>	Perubahan halaju/ <i>Change in velocity</i> Masa/ <i>Time</i>	
Daya <i>Force</i>	<i>F</i>	Jisim × Pecutan <i>Mass × Acceleration</i>	
Kerja <i>Work</i>	<i>W</i>	Daya × Sesaran <i>Force × Displacement</i>	