

Motion, forces and energy

IGCSE Physics · Vocabulary

English	中文	Pinyin
 measurement	测量	cè liáng
 ruler	直尺	zhí chǐ
 measuring cylinder	量筒	liáng tǒng
 meniscus	弯月面	wān yuè miàn
÷ measure many and divide	测多个再相除	cè duō gè zài xiāng chú
 pendulum	摆	bǎi
↺↻ period	周期	zhōu qī
⊕ uncertainty	不确定度	bù què dìng dù
# scalar	标量	biāo liàng
↗ magnitude	大小	dà xiǎo
↗ vector	矢量	shǐ liàng
 mass	质量	zhì liàng
 energy	能量	néng liàng
 temperature	温度	wēn dù
→ force	力	lì
↓ weight	重力	zhòng lì
↻ velocity	速度	sù dù
↻ acceleration	加速度	jiā sù dù
↻ momentum	动量	dòng liàng
↗ resultant	合矢量	hé shǐ liàng
→ motion	运动	yùn dòng
 speed	速率	sù lǜ
↘ deceleration	减速	jiǎn sù
 distance–time graph	距离-时间图	jù lí - shí jiān tú

English	中文	Pinyin
 at rest	静止	jìng zhǐ
 gradient	斜率	xié lǜ
 speed-time graph	速度-时间图	sù dù - shí jiān tú
Σ area under the line	线下面积	xiàn xià miàn jī
 acceleration of free fall	自由落体加 速度	zì yóu luò tǐ jiā sù dù
 air resistance	空气阻力	kōng qì zǔ lì
 terminal velocity	终极速度	zhōng jí sù dù
 matter	物质	wù zhì
 gravitational field strength	重力场强度	zhòng lì chǎng qiáng dù
 balance	天平	tiān píng
 density	密度	mì dù
 regular solid	规则固体	guī zé gù tǐ
 irregular solid	不规则固体	bù guī zé gù tǐ
 displacement method	排水法	pái shuǐ fǎ
 floats	漂浮	piāo fú
 shape	形状	xíng zhuàng
 extension	伸长量	shēn cháng liàng
 load-extension graph	载荷-伸长图	zài hè - shēn cháng tú
 limit of proportionality	比例极限	bǐ lì jí xiàn
 spring constant	弹簧常数	tán huáng cháng shù
 resultant force	合力	hé lì
 friction	摩擦力	mó cā lì
 moment	力矩	lì jǔ
 pivot	支点	zhī diǎn
 principle of moments	力矩原理	lì jǔ yuán lǐ
 equilibrium	平衡	píng héng

English	中文	Pinyin
☉ centre of gravity	重心	zhòng xīn
≡ lamina	薄片	báo piàn
☑ stable	稳定	wěn dìng
⚡ impulse	冲量	chōng liàng
↔ conservation of momentum	动量守恒	dòng liàng shǒu héng
📦 stored	储存	chǔ cún
↔ transferred	转移	zhuǎn yí
⚡ kinetic	动能	dòng néng
⚖ gravitational potential	重力势能	zhòng lì shì néng
⚗ chemical	化学能	huà xué néng
🔗 elastic (strain)	弹性势能	tán xìng shì néng
☢ nuclear	核能	hé néng
⚡ electrostatic	静电能	jìng diàn néng
🔥 internal (thermal)	内能	nèi néng
⚡ principle of conservation of energy	能量守恒定律	néng liàng shǒu héng dìng lǜ
🔄 Sankey diagram	桑基图	sāng jī tú
🗑 wasted	浪费	làng fèi
🔧 work done	做功	zuò gōng
⚡ joule	焦耳	jiāo ěr
⚡ power	功率	gōng lǜ
💡 watt	瓦特	wǎ tè
% efficiency	效率	xiào lǜ
↓ pressure	压强	yā qiáng
🌀 pascal	帕斯卡	pà sī kǎ
↓ depth	深度	shēn dù