T1 kinematics	T1 scalar	T1 magnitude
T1 distance	T1 vector	T1 sign
T1 positive direction	T1 displacement	T1 velocity

T1 大小 dà xiǎo	T1 标量 biāo liàng	T1 运动学 yùn dòng xué
T1 符号 fú hào	T1 矢量 shǐ liàng	T1 距离 jù lí
T1 速度 sù dù	T1 位移 wèi yí	T1 正方向 zhèng fāng xiàng

T1 speed	T1 acceleration	T1 average velocity
T1 instantaneous velocity	T1 deceleration	T1 constant acceleration
T1 kinematic equations	T1 final velocity	T1 free fall

T1 平均速度 píng jūn sù dù	T1 加速度 jiā sù dù	T1 速率 sù lǜ
T1 恒定加速度 héng dìng jiā sù dù	T1 减速 jiǎn sù	T1 瞬时速度 shùn shí sù dù
T1 自由落体 zì yóu luò tǐ	T1 末速度 mò sù dù	T1 运动学方程 yùn dòng xué fāng chéng

T1 air resistance	T1 symmetry	T1 position–time graph
T1 slope	T1 velocity–time graph	T1 area
T1 best-fit line	T1 reference frame	T1 relative motion

T1

位置 – 时间图

wèi zhì – shí jiān tú

T1

对称性

duì chèn xìng

T1

空气阻力

kōng qì zǔ lì

T1

面积

miàn jī

T1

速度 – 时间图

sù dù – shí jiān tú

T1

斜率

xié lǜ

T1

相对运动

xiāng duì yùn dòng

T1

参考系

cān kǎo xì

T1

最佳拟合线

zuì jiā nǐ hé xiàn

T1 inertial reference frame	T1 components	T1 projectile motion
T1 independent	T1 trajectory	T1 parabola
T1 time of flight	T1 maximum height	T1 range

T1 抛体运动 pāo tǐ yùn dòng	T1 分量 fēn liàng	T1 惯性参考系 guàn xìng cān kǎo xì
T1 抛物线 pāo wù xiàn	T1 轨迹 guǐ jì	T1 相互独立 xiāng hù dú lì
T1 射程 shè chéng	T1 最大高度 zuì dà gāo dù	T1 飞行时间 fēi xíng shí jiān

T2 system	T2 center of mass	T2 force
T2 free-body diagram	T2 Newton's third law	T2 Newton's first law
T2 inertia	T2 net force	T2 translational equilibrium

T2 力 lì	T2 质心 zhì xīn	T2 系统 xì tǒng
T2 牛顿第一定律 niú dùn dì yī dìng lǜ	T2 牛顿第三定律 niú dùn dì sān dìng lǜ	T2 受力图 shòu lì tú
T2 平衡 píng héng	T2 合力 hé lì	T2 惯性 guàn xìng

T2 Newton's second law	T2 gravitational field strength	T2 Newton's law of gravitation
T2 gravitational field	T2 apparent weight	T2 inertial mass
T2 gravitational mass	T2 Friction	T2 Kinetic friction

T2

万有引力定律

wàn yǒu yǐn lì dìng lǜ

T2

重力场强度

zhòng lì chǎng qiáng dù

T2

牛顿第二定律

niú dùn dì èr dìng lǜ

T2

惯性质量

guàn xìng zhì liàng

T2

视重

shì zhòng

T2

引力场

yǐn lì chǎng

T2

动摩擦

dòng mó cā

T2

摩擦力

mó cā lì

T2

引力质量

yǐn lì zhì liàng

T2 Static friction	T2 normal force	T2 coefficient of friction
T2 restoring force	T2 Hooke's law	T2 spring constant
T2 centripetal acceleration	T2 net inward (centripetal) force	T2 period

T2 摩擦系数 mó cā xì shù	T2 法向力 fǎ xiàng lì	T2 静摩擦 jìng mó cā
T2 弹簧常数 tán huáng cháng shù	T2 胡克定律 hú kè dìng lǜ	T2 回复力 huí fù lì
T2 周期 zhōu qī	T2 向心力 xiàng xīn lì	T2 向心加速度 xiàng xīn jiā sù dù

T2 frequency	T2 tangential acceleration	T2 weight
T2 incline	T2 tension	T3 Energy
T3 joules	T3 kinetic energy	T3 scalar

T2 重力 zhòng lì	T2 切向加速度 qiē xiàng jiā sù dù	T2 频率 pín lǜ
T3 能量 néng liàng	T2 张力 zhāng lì	T2 斜面 xié miàn
T3 标量 biāo liàng	T3 动能 dòng néng	T3 焦耳 jiāo ěr

T3 stopping distance	T3 interaction	T3 Work
T3 displacement	T3 perpendicular	T3 work–energy theorem
T3 frictionless	T3 Potential energy	T3 Gravitational potential energy

T3 功 gōng	T3 相互作用 xiāng hù zuò yòng	T3 制动距离 zhì dòng jù lí
T3 动能定理 dòng néng dìng lǐ	T3 垂直 chuí zhí	T3 位移 wèi yí
T3 重力势能 zhòng lì shì néng	T3 势能 shì néng	T3 无摩擦的 wú mó cā de

T3 reference level	T3 Elastic potential energy	T3 conservative forces
T3 closed path	T3 satellite	T3 escape speed
T3 total mechanical energy	T3 conserved	T3 friction

T3

保守力

bǎo shǒu lì

T3

弹性势能

tán xìng shì néng

T3

参考面

cān kǎo miàn

T3

逃逸速度

táo yì sù dù

T3

卫星

wèi xīng

T3

闭合路径

bì hé lù jìng

T3

摩擦力

mó cā lì

T3

守恒

shǒu héng

T3

机械能

jī xiè néng

T3 thermal energy	T3 non-conservative force	T3 energy bar chart
T3 system	T3 internal force	T3 normal force
T3 Power	T3 watts	T3 slope

T3

能量柱状图

néng liàng zhù zhuàng tú

T3

非保守力

fēi bǎo shǒu lì

T3

热能

rè néng

T3

法向力

fǎ xiàng lì

T3

内力

nèi lì

T3

系统

xì tǒng

T3

斜率

xié lǜ

T3

瓦特

wǎ tè

T3

功率

gōng lǜ

T3 efficiency	T3 air resistance	T3 centripetal force
T4 Linear momentum	T4 impulse	T4 impulse–momentum theorem
T4 force–time graph	T4 area	T4 airbags

T3

向心力

xiàng xīn lì

T3

空气阻力

kōng qì zǔ lì

T3

效率

xiào lǜ

T4

冲量 – 动量定理

chōng liàng – dòng liàng dìng lǐ

T4

冲量

chōng liàng

T4

动量

dòng liàng

T4

安全气囊

ān quán qì náng

T4

面积

miàn jī

T4

力 – 时间图

lì – shí jiān tú

T4 average force	T4 peak	T4 net external force
T4 conserved	T4 third-law pairs	T4 collisions
T4 explosions	T4 rockets	T4 center-of-mass velocity

T4 合外力 hé wài lì	T4 峰值 fēng zhí	T4 平均力 píng jūn lì
T4 碰撞 pèng zhuàng	T4 第三定律力对 dì sān dìng lǜ lì duì	T4 守恒 shǒu héng
T4 质心速度 zhì xīn sù dù	T4 火箭 huǒ jiàn	T4 爆炸 bào zhà

T4 kinetic energy	T4 elastic collision	T4 inelastic collision
T4 deformation	T4 perfectly inelastic	T4 stick together
T4 stationary	T4 system	T4 net external impulse

T4

非弹性碰撞

fēi tán xìng pèng zhuàng

T4

弹性碰撞

tán xìng pèng zhuàng

T4

动能

dòng néng

T4

粘在一起

zhān zài yì qǐ

T4

完全非弹性

wán quán fēi tán xìng

T4

形变

xíng biàn

T4

外部冲量

wài bù chōng liàng

T4

系统

xì tǒng

T4

静止的

jìng zhǐ de

T4 internal force	T4 external force	T4 friction
T4 gravity	T4 momentum bar chart	T4 ballistic pendulum
T4 negligible	T4 vector	T4 axis

T4 摩擦力 mó cā lì	T4 外力 wài lì	T4 内力 nèi lì
T4 冲击摆 chōng jī bǎi	T4 动量柱状图 dòng liàng zhù zhuàng tú	T4 重力 zhòng lì
T4 轴 zhóu	T4 矢量 shǐ liàng	T4 可忽略的 kě hū lüè de

T4 justify	T4 carts	T4 track
T4 recoil	T5 rigid system	T5 angular displacement
T5 radians	T5 angular velocity	T5 angular acceleration

T4 轨道 guǐ dào	T4 小车 xiǎo chē	T4 论证 lùn zhèng
T5 角位移 jiǎo wèi yí	T5 刚体系统 gāng tǐ xì tǒng	T4 反冲 fǎn chōng
T5 角加速度 jiǎo jiā sù dù	T5 角速度 jiǎo sù dù	T5 弧度 hú dù

T5 rotational kinematic equations	T5 axis of rotation	T5 Torque
T5 moment arm	T5 line of action	T5 clockwise
T5 counterclockwise	T5 static friction	T5 Rotational inertia

T5

力矩

lì jǔ

T5

转轴

zhuàn zhóu

T5

转动运动学方程

zhuǎn dòng yùn dòng xué fāng chéng

T5

顺时针

shùn shí zhēn

T5

作用线

zuò yòng xiàn

T5

力臂

lì bì

T5

转动惯量

zhuǎn dòng guàn liàng

T5

静摩擦

jìng mó cā

T5

逆时针

nì shí zhēn

T5 moment of inertia	T5 point mass	T5 hoop
T5 solid disk	T5 rotational equilibrium	T5 net torque
T5 pivot	T5 translation	T5 tension

T5

圆环

yuán huán

T5

质点

zhì diǎn

T5

惯性矩

guàn xìng jǔ

T5

合力矩

hé lì jǔ

T5

转动平衡

zhuǎn dòng píng héng

T5

实心圆盘

shí xīn yuán pán

T5

张力

zhāng lì

T5

平动

píng dòng

T5

支点

zhī diǎn

T5 uniform	T5 force diagram	T5 revolutions
T5 analogues	T6 rotational kinetic energy	T6 translational kinetic energy
T6 centre-of-mass	T6 work	T6 work–energy theorem

T5

转数

zhuǎn shù

T5

力图

lì tú

T5

均匀的

jūn yún de

T6

平动动能

píng dòng dòng néng

T6

转动动能

zhuǎn dòng dòng néng

T5

类比量

lèi bǐ liáng

T6

动能定理

dòng néng dìng lǐ

T6

功

gōng

T6

质心

zhì xīn

T6 flywheel	T6 Angular momentum	T6 rigid body
T6 angular impulse	T6 impulse–momentum theorem	T6 net external torque
T6 conserved	T6 collisions	T6 explosions

T6 刚体 gāng tǐ	T6 角动量 jiǎo dòng liàng	T6 飞轮 fēi lún
T6 合外力矩 hé wài lì jǔ	T6 冲量 – 动量定理 chōng liàng – dòng liàng dìng lǐ	T6 角冲量 jiǎo chōng liàng
T6 爆炸 bào zhà	T6 碰撞 pèng zhuàng	T6 守恒 shǒu héng

T6 inversely proportional	T6 Rolling without slipping	T6 contact point
T6 incline	T6 shape factor	T6 satellite
T6 orbit	T6 free fall	T6 centripetal force

T6 接触点 jiē chù diǎn	T6 纯滚动 chún gǔn dòng	T6 成反比 chéng fǎn bǐ
T6 卫星 wèi xīng	T6 形状因子 xíng zhuàng yīn zi	T6 斜面 xié miàn
T6 向心力 xiàng xīn lì	T6 自由落体 zì yóu luò tǐ	T6 轨道 guǐ dào

T6 mechanical energy	T6 elliptical	T6 Escape velocity
T7 Simple harmonic motion	T7 oscillation	T7 restoring force
T7 proportional	T7 displacement	T7 pendulum

T6 逃逸速度 táo yì sù dù	T6 椭圆的 tuǒ yuán de	T6 机械能 jī xiè néng
T7 回复力 huí fù lì	T7 振动 zhèn dòng	T7 简谐运动 jiǎn xié yùn dòng
T7 单摆 dān bǎi	T7 位移 wèi yí	T7 成正比 chéng zhèng bǐ

T7 periodic motion	T7 period	T7 cycle
T7 frequency	T7 hertz	T7 stiffness
T7 sinusoidally	T7 amplitude	T7 angular frequency

T7 循环 xún huán	T7 周期 zhōu qī	T7 周期性运动 zhōu qī xìng yùn dòng
T7 劲度 jìn dù	T7 赫兹 hè zī	T7 频率 pín lǜ
T7 角频率 jiǎo pín lǜ	T7 振幅 zhèn fú	T7 按正弦规律 àn zhèng xián guī lǜ

T7 equilibrium	T7 phase	T7 kinetic energy
T7 potential energy	T7 turning points	T7 unstretched length
T7 origin	T7 gradient	T7 best-fit line

T7 动能 dòng néng	T7 相位 xiàng wèi	T7 平衡 píng héng
T7 原长 yuán zhǎng	T7 折返点 zhé fǎn diǎn	T7 势能 shì néng
T7 最佳拟合线 zuì jiā nǐ hé xiàn	T7 斜率 xié lǜ	T7 原点 yuán diǎn

T7 reaction time	T7 bob	T8 fluid
T8 density	T8 ideal fluid	T8 incompressible
T8 viscosity	T8 pressure	T8 perpendicular

T8 流体 liú tǐ	T7 摆锤 bǎi chuí	T7 反应时间 fǎn yìng shí jiān
T8 不可压缩 bù kě yā suō	T8 理想流体 lǐ xiǎng liú tǐ	T8 密度 mì dù
T8 垂直 chuí zhí	T8 压强 yā qiáng	T8 黏度 nián dù

T8 scalar	T8 pascals	T8 depth
T8 gauge pressure	T8 atmospheric pressure	T8 absolute pressure
T8 Pascal's principle	T8 buoyant force	T8 Archimedes' principle

T8 深度 shēn dù	T8 帕斯卡 pà sī kǎ	T8 标量 biāo liàng
T8 绝对压强 jué duì yā qiáng	T8 大气压强 dà qì yā qiáng	T8 表压 biǎo yā
T8 阿基米德原理 ā jī mǐ dé yuán lǐ	T8 浮力 fú lì	T8 帕斯卡原理 pà sī kǎ yuán lǐ

T8 apparent weight	T8 continuity	T8 conservation of mass
T8 volume flow rate	T8 Bernoulli's equation	T8 conservation of energy
T8 streamline	T8 Torricelli's result	T8 equilibrium

T8

质量守恒

zhì liàng shǒu héng

T8

连续性

lián xù xìng

T8

视重

shì zhòng

T8

能量守恒

néng liàng shǒu héng

T8

伯努利方程

bó nǔ lì fāng chéng

T8

体积流量

tǐ jī liú liàng

T8

平衡

píng héng

T8

托里拆利定理

tuō lǐ chāi lì dìng lǐ

T8

流线

liú xiàn