

升学辅导杨老师 18167992085 添加微信获取更多资料

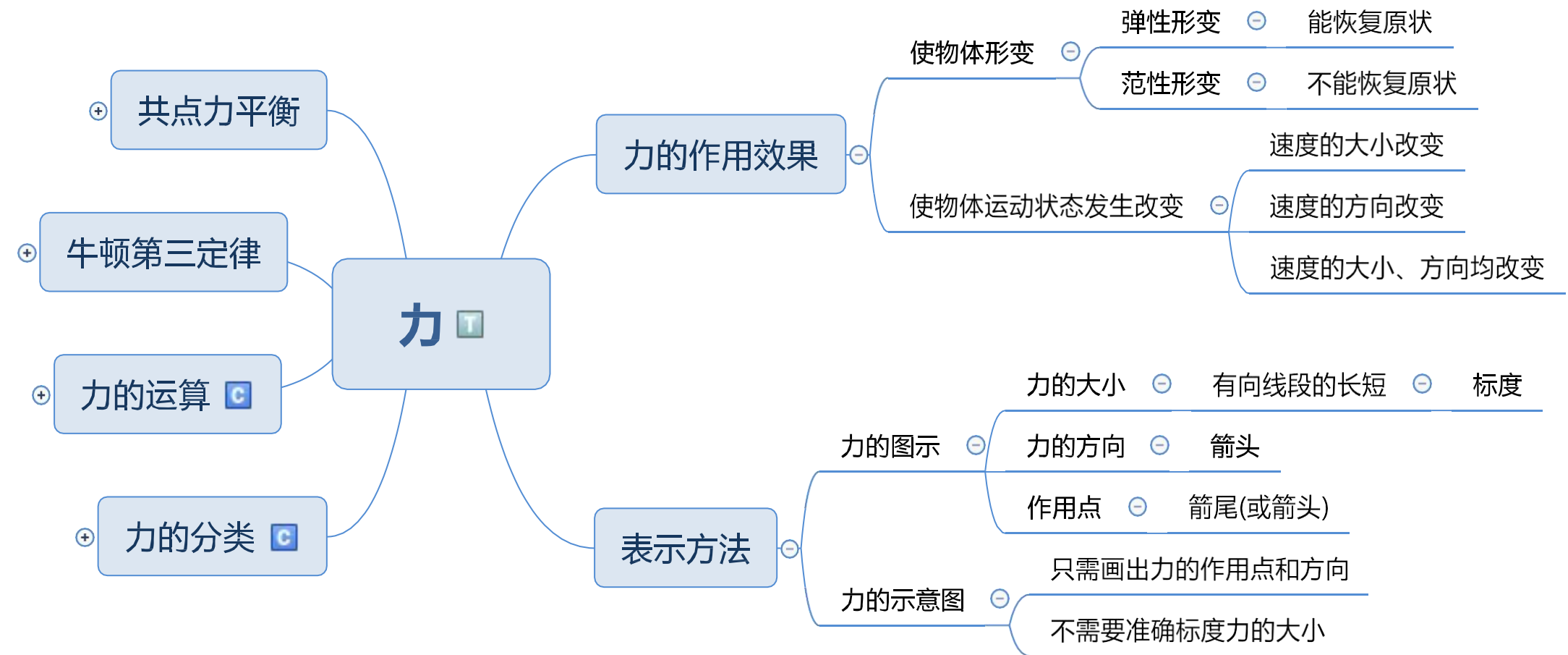
成功的路是孤独的、寂寞的，感谢能陪你一程的人！成功的路一点都不拥挤，能坚持下来的就剩你自己！

高中物理

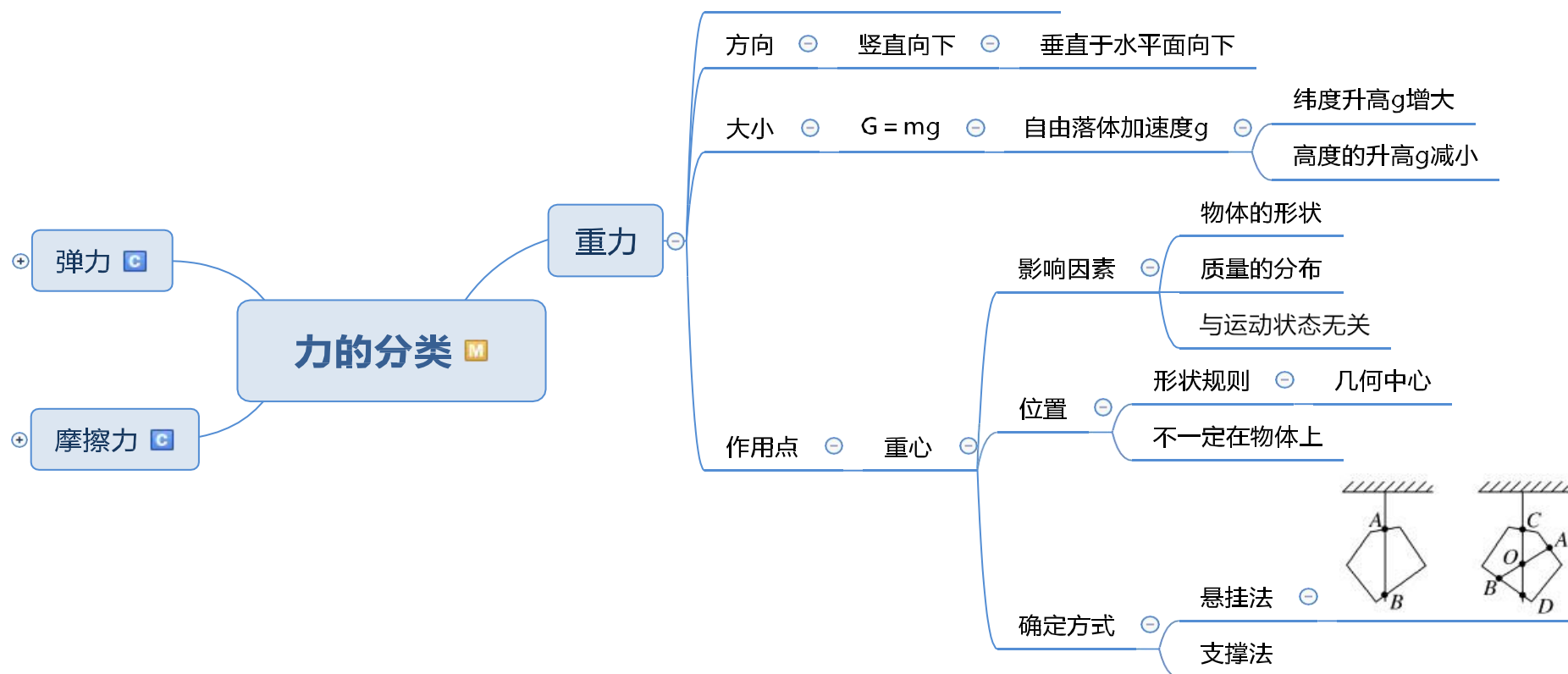
必修 1 第三章：相互作用—— 力

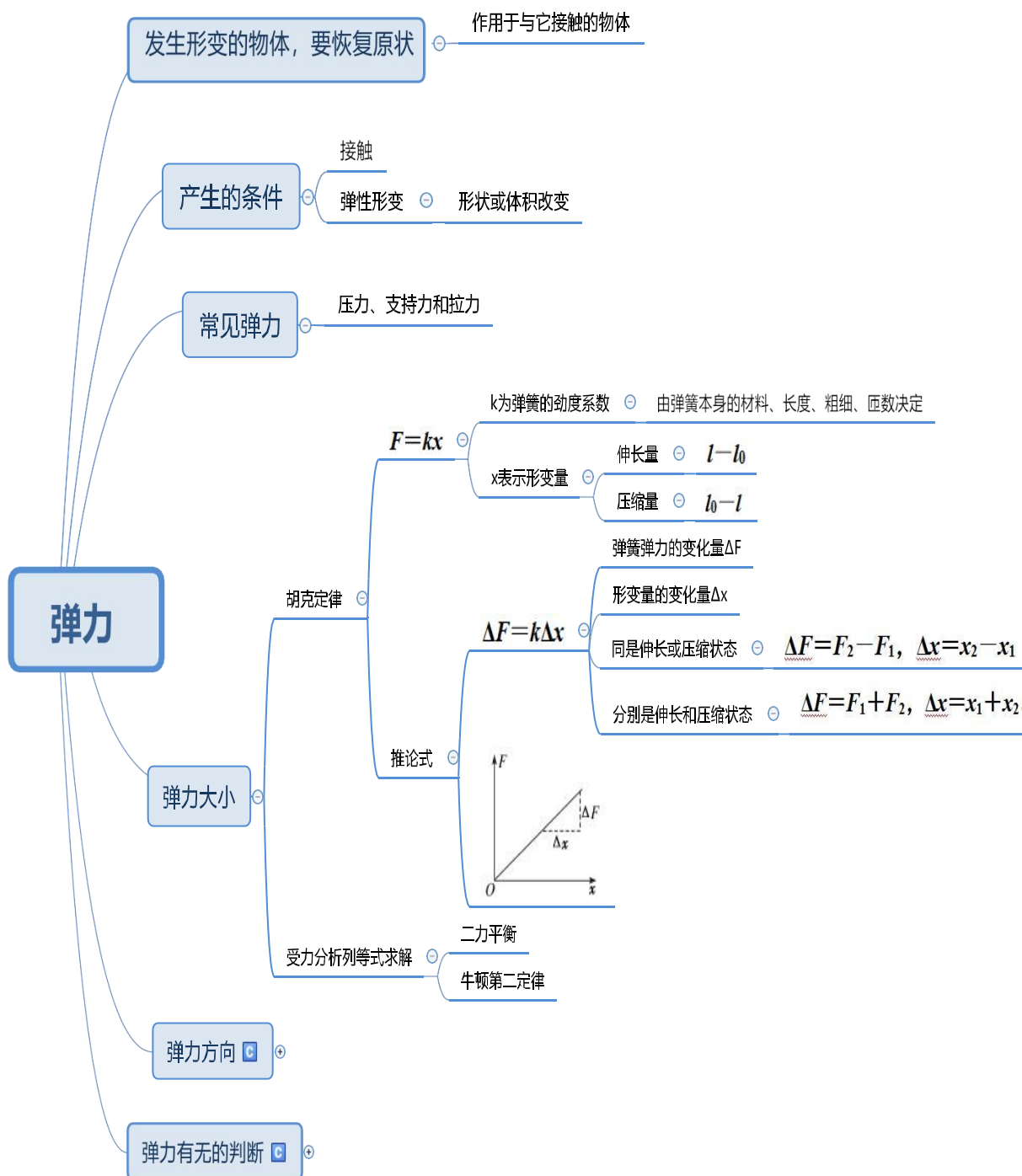
思维导图

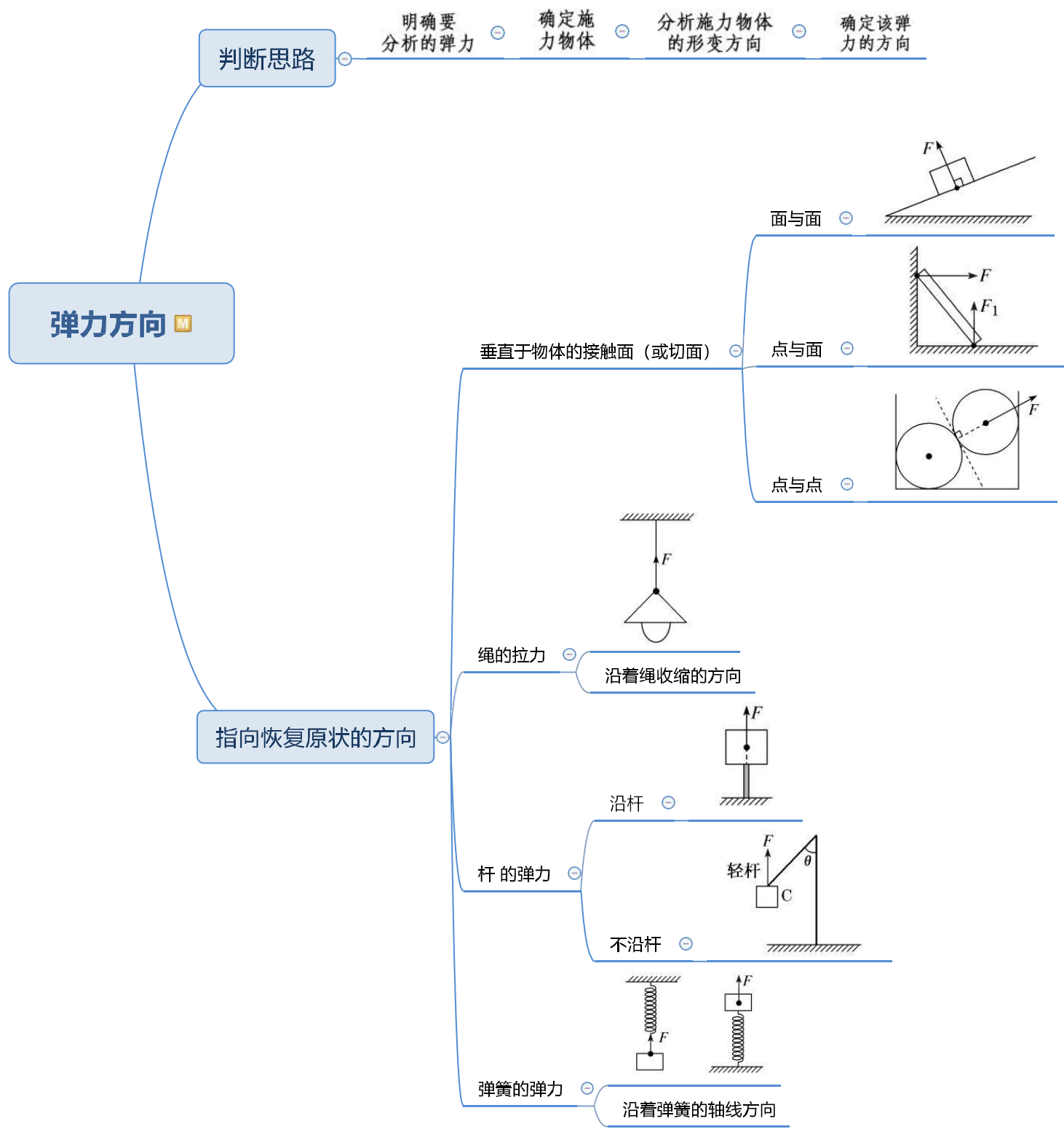
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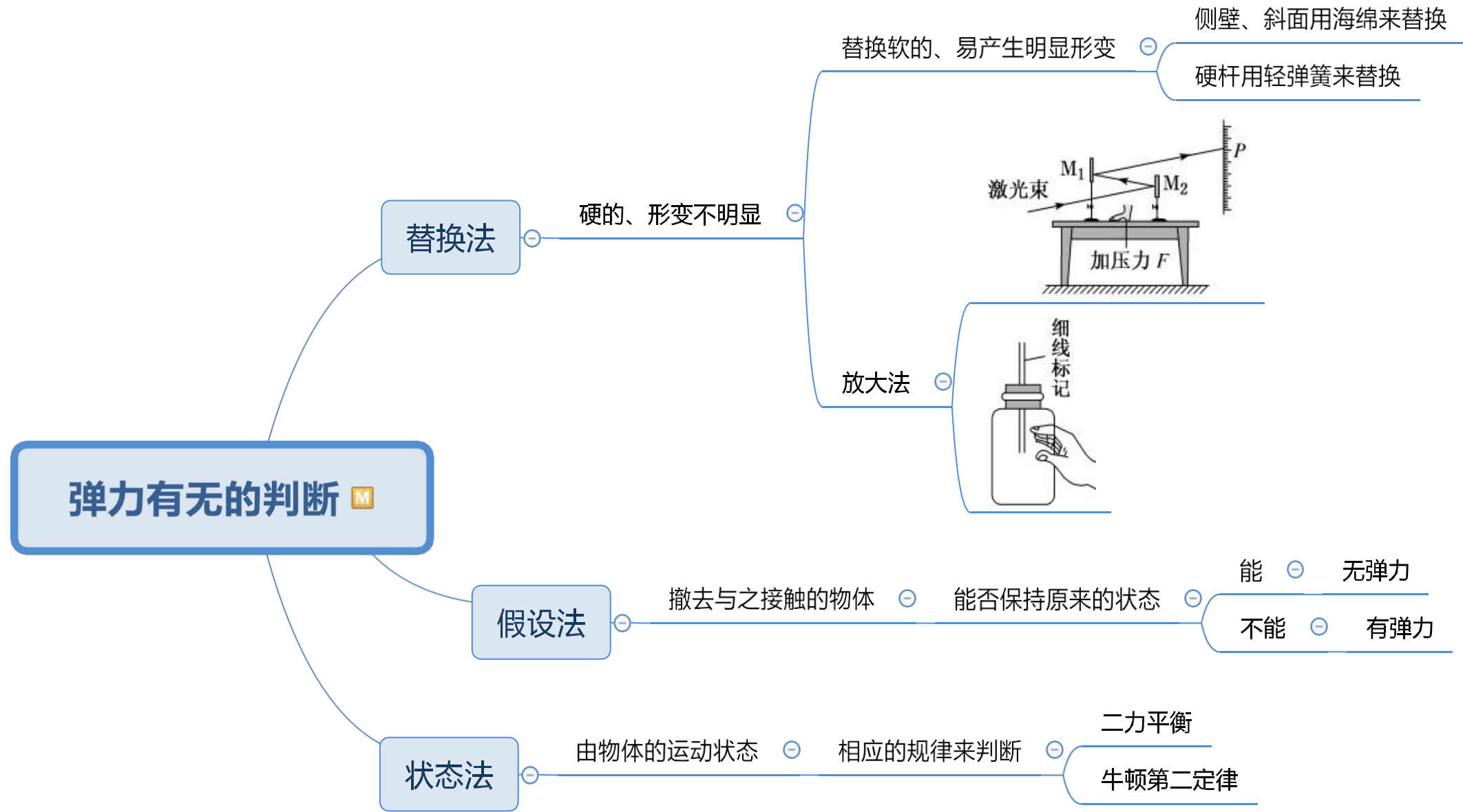


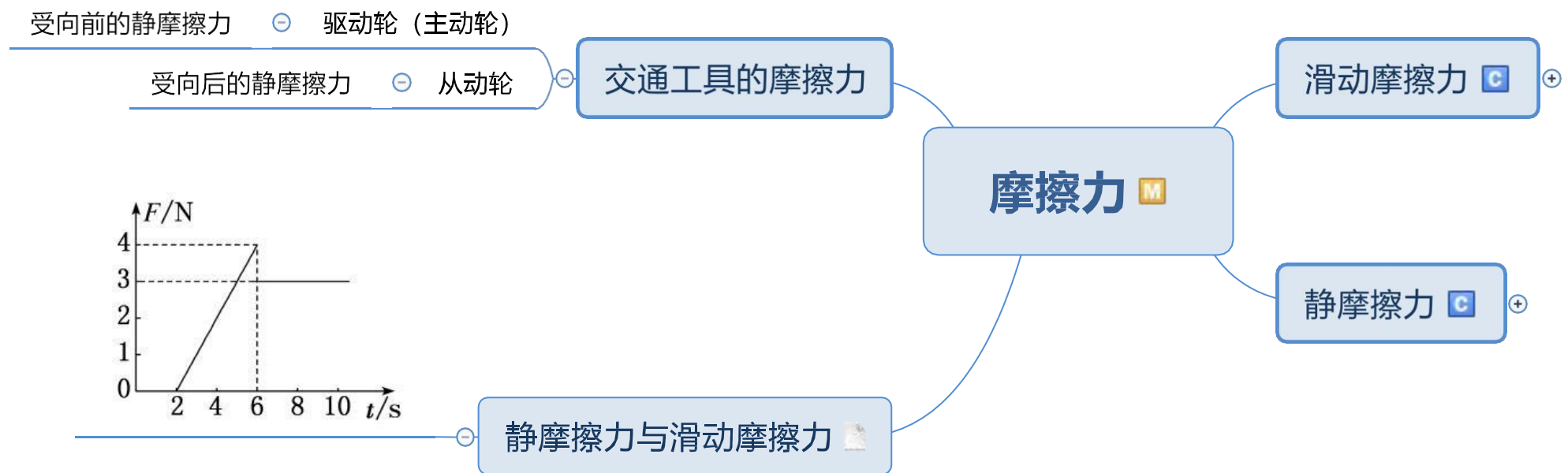
地球的吸引而使物体受到的力

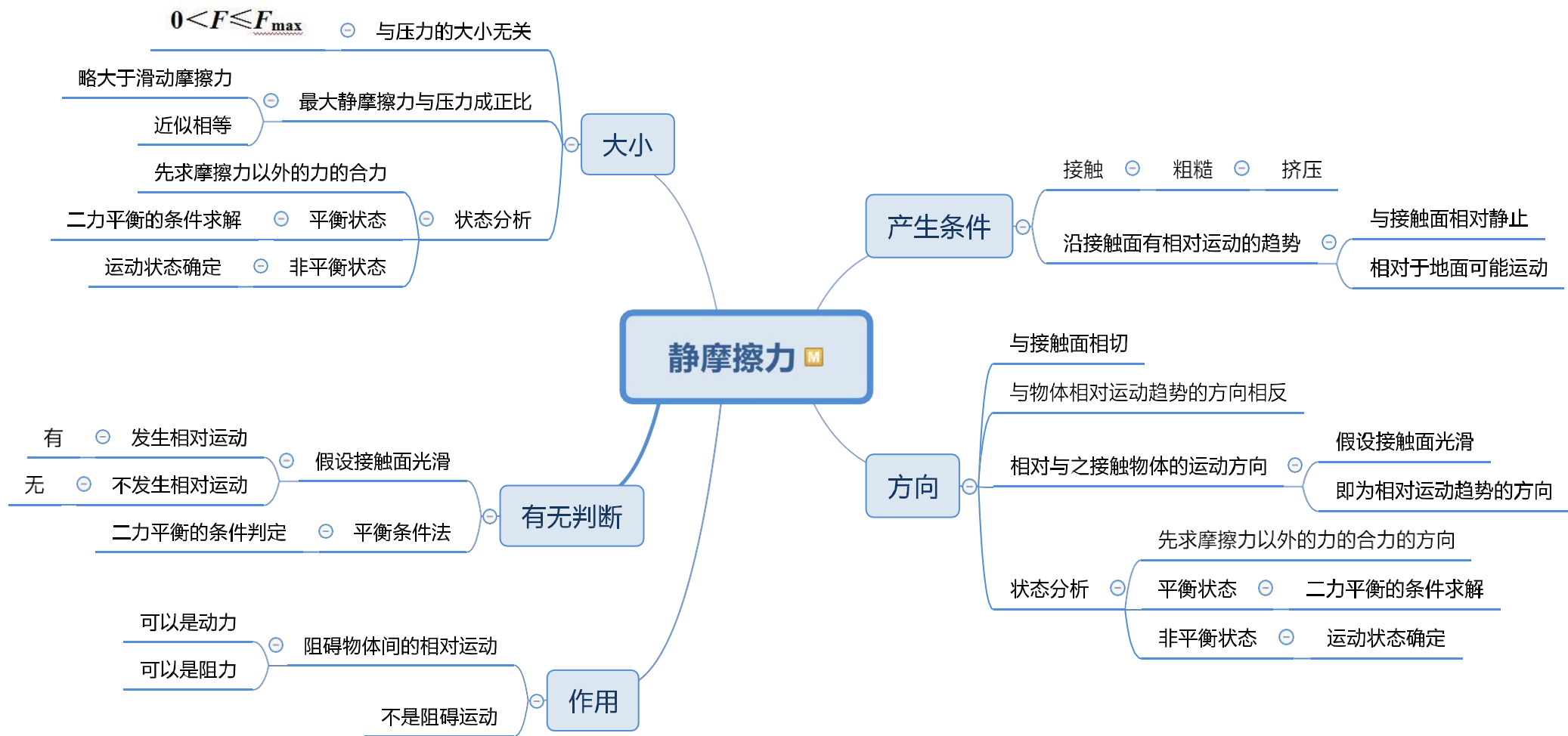


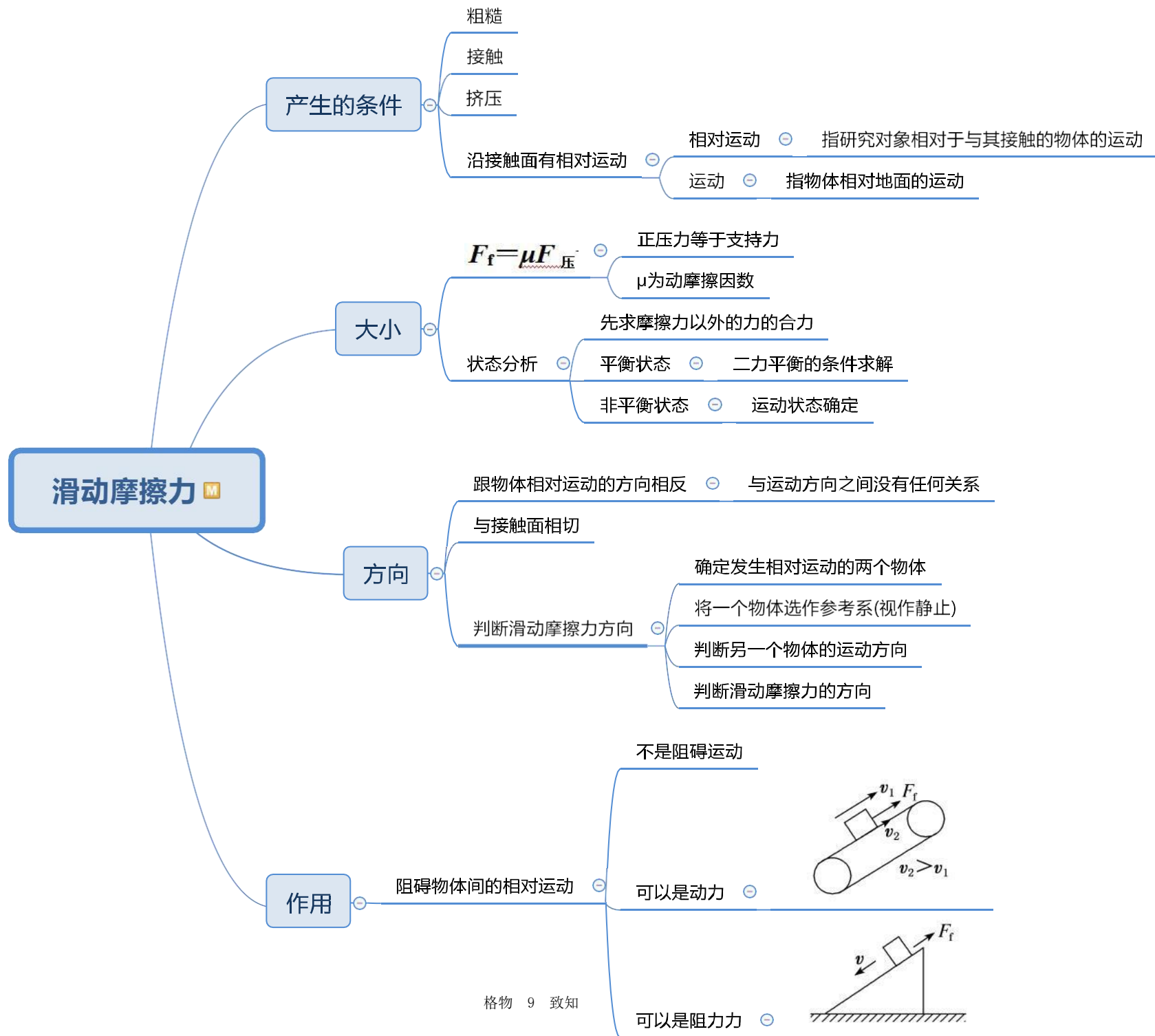


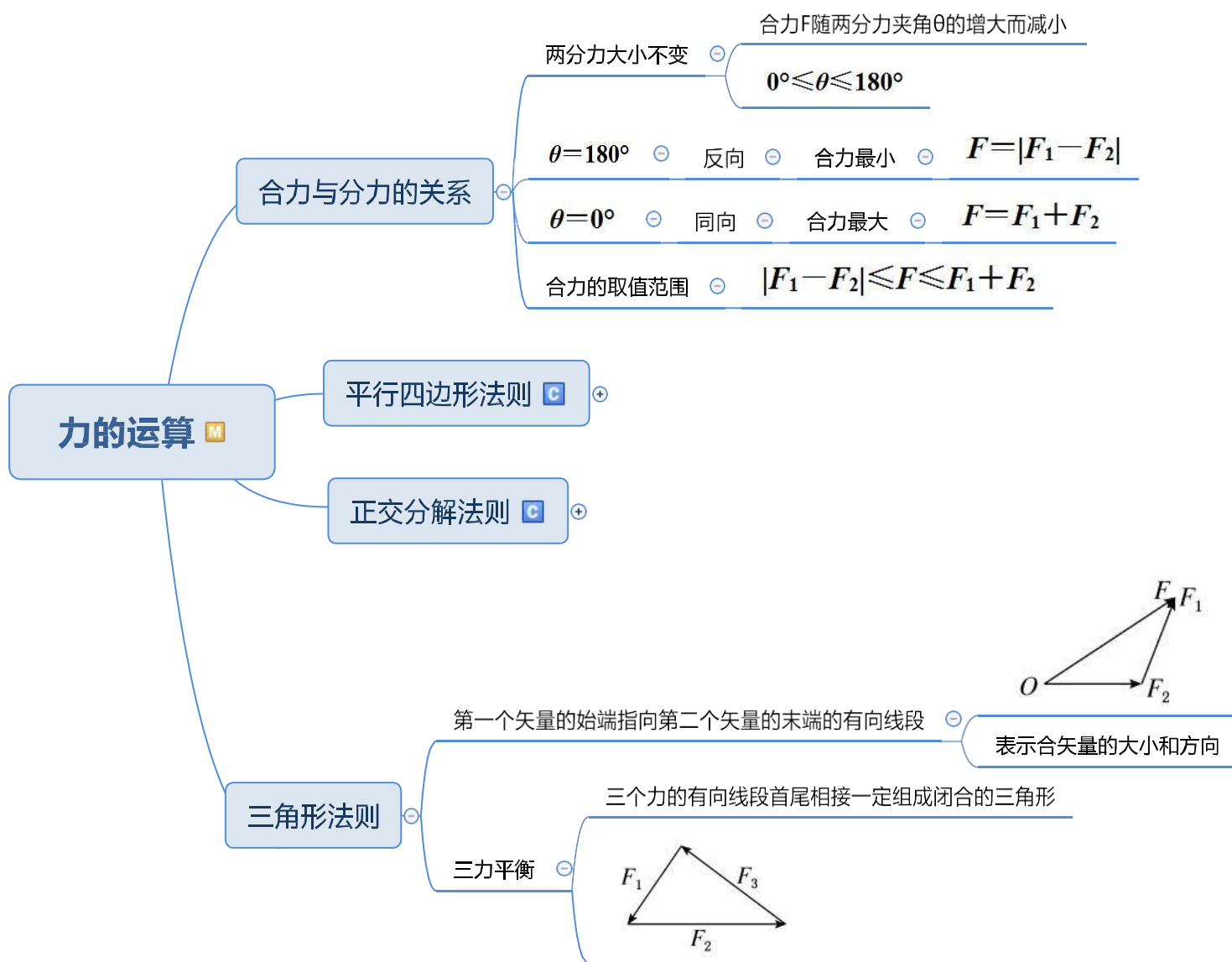




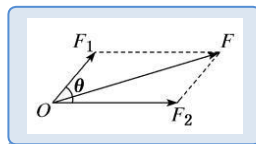








对角线就代表合力的大小和方向



合力不变，夹角越大 ② 分力越大

分力不变，夹角越大 ② 合力越小

夹角不变，分力越大 ② 合力越大

平行四边形法则

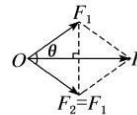
力的合成



两分力相互垂直 ②

大小 ② $F = \sqrt{F_1^2 + F_2^2}$

方向 ② $\tan \theta = \frac{F_1}{F_2}$



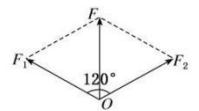
两分力大小相等，夹角为 θ ②

大小 ②

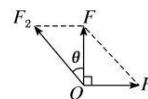
$$F = 2F_1 \cos \frac{\theta}{2}$$

当 $\theta = 120^\circ$ 时 ②

$$F_1 = F_2 = F$$



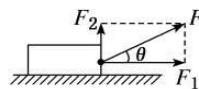
方向 ② F 与 F_1 夹角为 $\frac{\theta}{2}$



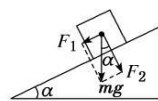
合力与其中一个分力垂直 ②

大小 ② $F = \sqrt{F_2^2 - F_1^2}$

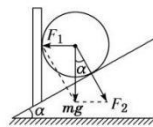
方向 ② $\sin \theta = \frac{F_1}{F_2}$



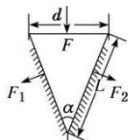
$$F_1 = F \cos \theta, F_2 = F \sin \theta$$



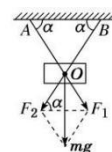
$$F_1 = mg \sin \alpha, F_2 = mg \cos \alpha$$



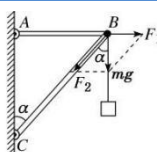
$$F_1 = mg \tan \alpha, F_2 = \frac{mg}{\cos \alpha}$$



$$F_1 = F_2 = \frac{L}{d} F$$



$$F_1 = F_2 = \frac{mg}{2 \sin \alpha}$$



$$F_1 = mg \tan \alpha, F_2 = \frac{mg}{\cos \alpha}$$

按效果分解力

