Frictions "Cheat" sheet

 $\mu \qquad \qquad \mathsf{Basic} \; \mathsf{Formula} \quad \mu \; \frac{\mathsf{:}\; \mathsf{Ff}}{\mathsf{Fn}}$

- 1 If an object is on level ground accelerating + or then μ =a/g
- 2 If an object is being pulled on level ground at a constant speed Ff = Fp
- 3 On level ground Fn = Fw =mg assuming the object is not being pulled upwards
- 5. If the object is accelerating, the downwards force is Fd= Fp- Ff

or
$$\mu \xrightarrow{mgsin \theta - ma} mgcos \theta$$

6. If the object is being pulled up the incline at a constant speed Fpull = Ff + Fp