



Uphill Struggle



The problem

Jack and Jill have made a luxury double-seater cart, but it is very heavy to push up the hill.

Can you design a way to stop the cart from rolling back down the hill when they stop to catch their breath?

Design brief


Design and make a vehicle that:

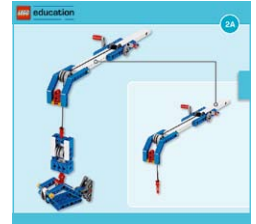
- can carry at least 50 g (≈ 1.75 oz) (or approximately 1 weight brick)
- has a safety feature that does not prevent the vehicle from rolling forwards

1. Make a sketch of the idea you designed and made.

2. Label the three most important parts, explaining how they work.

3. Suggest three improvements.

 **Need help?**
Look at:



Fishing Rod



Freewheeling



Principle Models Building Instructions booklet for wheels and axles