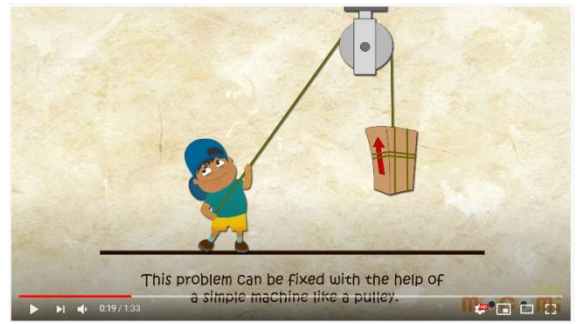


**LI: To understand how pulleys reduce the force needed to lift objects.**

This first video explains a little bit about how pulleys work, while the second video uses a force meter, which measures force (in Newtons), to see how much the pulleys are making lifting easier.

<https://www.youtube.com/watch?v=LiBcur1aqcg>

<https://www.youtube.com/watch?v=r3Ru1zZjvug>



**Task 1**

Draw an arrow, circle or describe where the pulley (wheel, axle and groove) are in the following items. Some may have more than one.



Fishing Rod



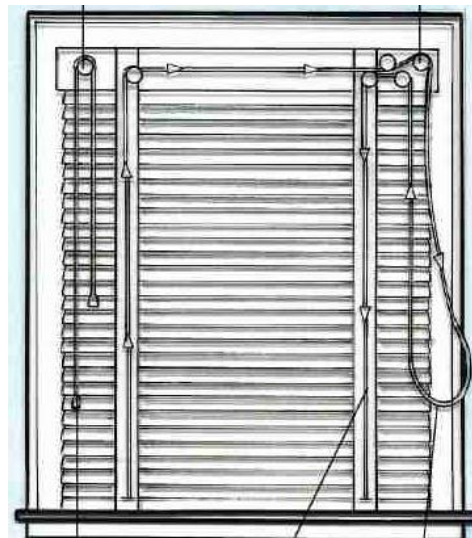
Well



Bicycle



Flag Pole

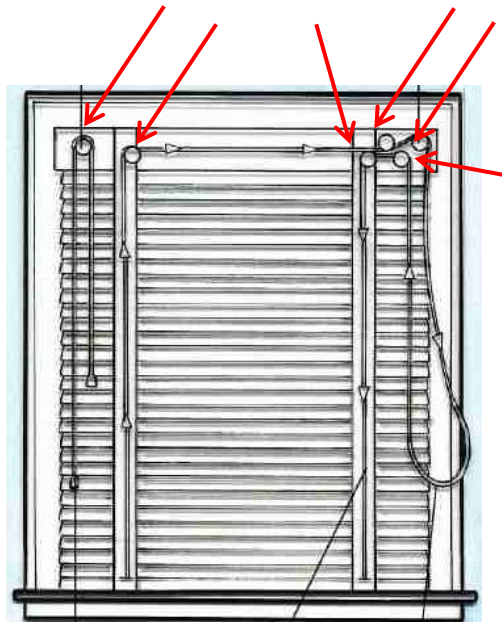
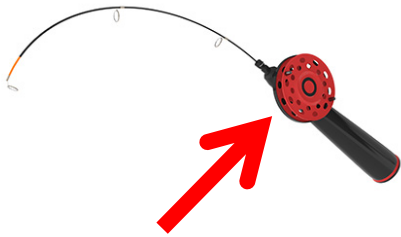


Window Blinds



Crane

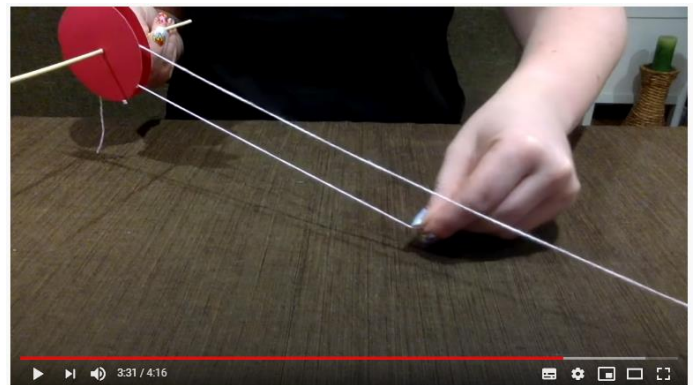
## Task 1 Answers



## Task 2

Have a go at making your own pulley using:

- string or knitting yarn
- cocktail stick or kebab skewer
- card or paper
- glue
- bottle cap or other small cylinder
- bottom of a water bottle or other container (you could always tape or glue the string to the container if you find the threading and knotting difficult)



<https://www.youtube.com/watch?v=rc0cpp3i8GA>