

Engineering in Reverse! Activity – Engineering in Reverse Worksheet

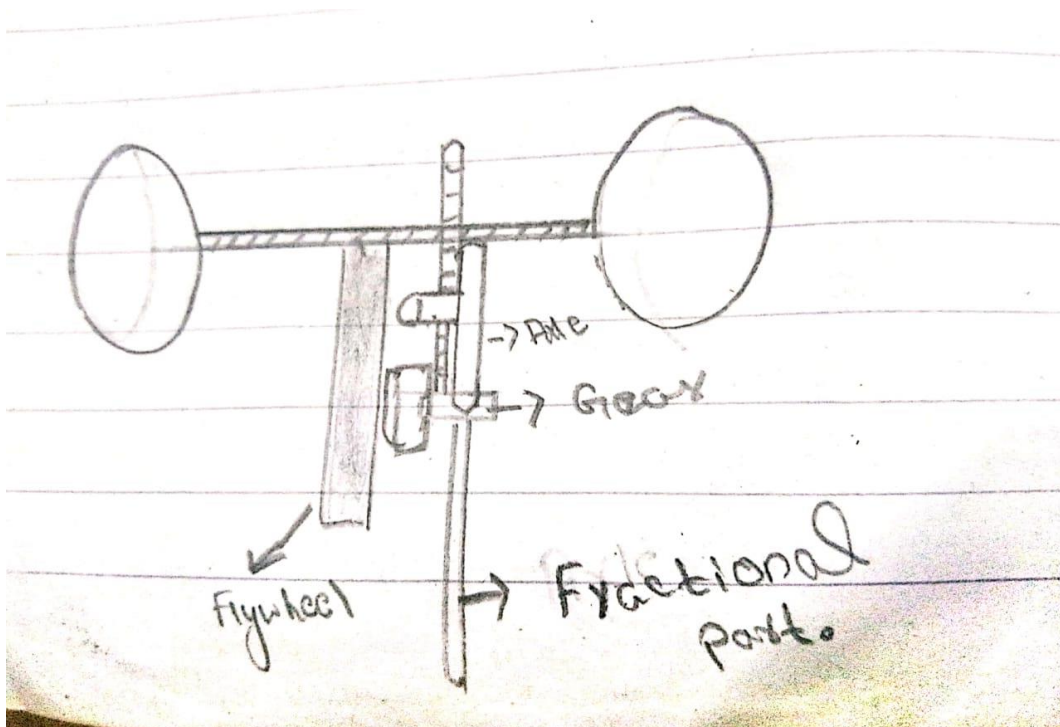
In the box below, complete a *detailed* drawing of the internal components (i.e. the inside mechanisms) in the push-toy before it has been disassembled.

Your drawing should include:

- Label for all parts
- Brief description of each part's function(s)



BEFORE Disassembly

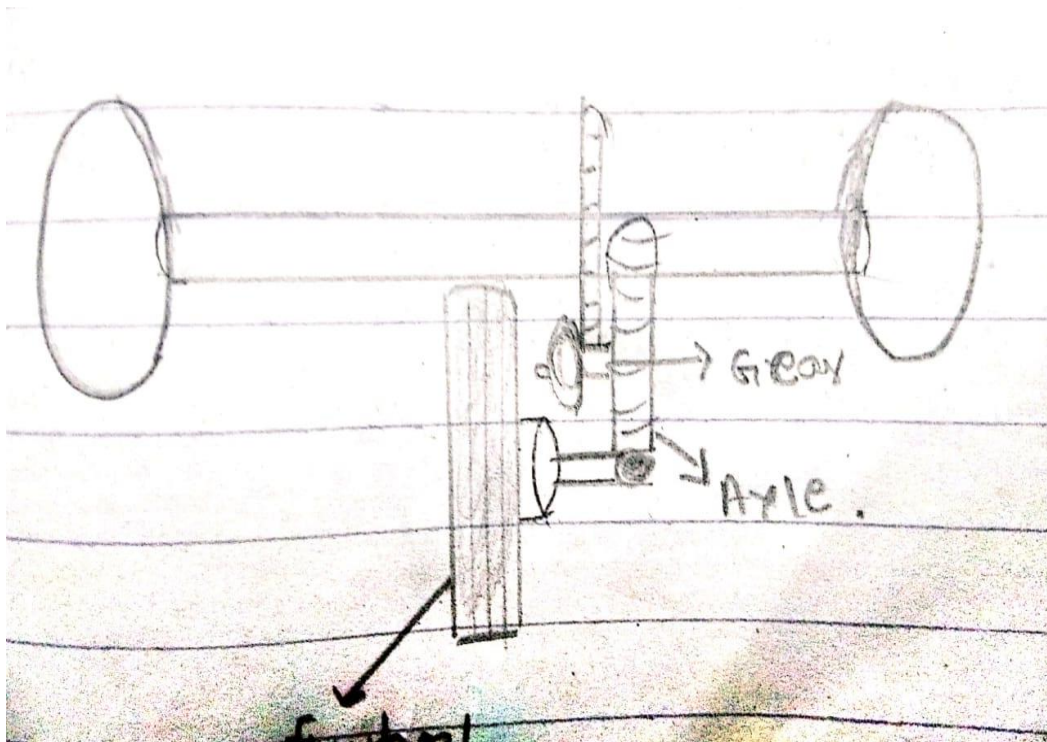


Working:-

When we drag back the push toy, its axle will move in opposite direction and when release the toy axle start moving to come to its original position, so that gear move's and extra frictional part ~~retard~~ waste the energy so that the performance will lower down.

In the box below, complete a *detailed* drawing of the internal components of the push-toy after it has been disassembled. Your drawing should include:

- Label for all parts
- Brief description of each part's function(s)

AFTER Disassembly

Now, After remove the fractional part the car ~~try~~ is way better than the old one because of no waste.

After you have completed your drawing, answer the following questions.

- 1) What does this device do? What parts make it work this way?

It's toy car, The name of boy is "Bucky".
It move forward direct after a little drag.
Parts of Bucky are.

- Fly wheel: Help to move the Bucky
- Axle: Help to rotate fly wheel.
- Gear: Help when we drag to move Forward.
- Extra Friction part: waste the Energy

- 2) How would you improve the way this device is made?

By removing the Extra frictional part or change the gear box. so that the product is cost efficient.

- 3) How could you change this device to make it more cost effective to produce?

Now, After remove the frictional part the car ~~try~~ is way better than the Old one because of no waste.

- 4) Can you redesign this device to make it function differently? How would you do this?

Yes, we can make it a tractor by change the few parts, we can make it remote car or Electronic car, we can make on it that follow the line and ~~extra~~ many more