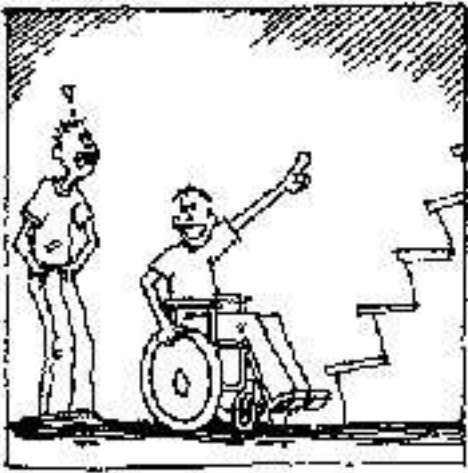


Design Challenge: Helping our Friends



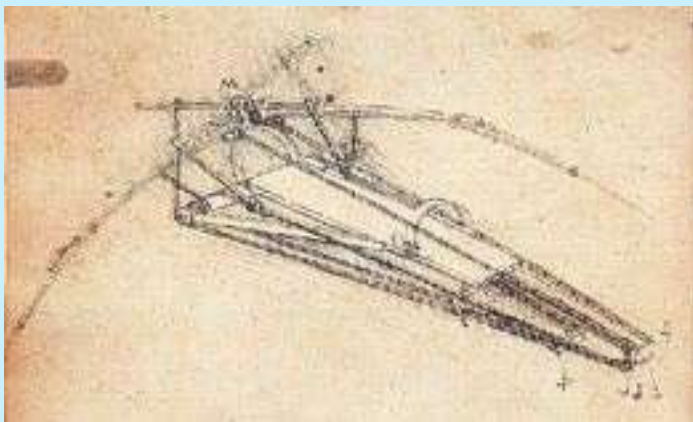
People in wheelchairs sometimes need to get from one level to another.

Design a machine that will help lift and move a wheelchair between two levels.

Consider:

- The platform has to stay level (horizontal) or the chair - and person! - may slide off.
- Hanging** baskets are good, but they can be unstable. Can you make a platform that will lift but is also stable?

Design Challenge: Make a winged machine



Leonardo da Vinci made many drawings of flying machines.

Design a machine that can make a movement like a bird's wing

Consider: •Making a high platform so the wings can move down

- Use cardboard or paper to cover the hydraulics mechanism - so it looks like a wing!