

## INCLINED PLANES, LEVERS AND PULLEYS

1. Watch the video "Ramps: a super, simple machine!"  and answer the questions.

1. What is a **ramp** or **inclined plane**?

A ramp is a \_\_\_\_\_ surface with one end \_\_\_\_\_ the other end.

2. What is a **machine**?

A machine is anything that \_\_\_\_\_.

3. Which **kind of machine** is a ramp?

It is a \_\_\_\_\_.

2. Tick the pictures which are examples of ramps or inclined planes.



To move things into and out of a truck.



To create documents and send emails.



To move cars on and off of a highway.




To remove a nail from the wall.



To lift people between floors




To let wheelchairs get on and off sidewalks.

3. Watch the video "Super Simple Machines: Levers"  and choose the correct answer for these sentences.

1. A **lever** makes work \_\_\_\_\_ by lifting things that would be too \_\_\_\_\_ to lift on your own.
2. By pushing down on one end of the lever, the fulcrum makes the other end go \_\_\_\_\_.
3. When the fulcrum is not in the middle, but closer to the object we want to lift, it is \_\_\_\_\_ to lift the object.
4. All levers are \_\_\_\_\_.

4. Tick the pictures which are examples of levers.



5. Watch the video "Need a lift? Try a pulley!"  and answer the questions.

1. Which **simple machines** are mentioned in the video?

☐ a lamp      ☐ a computer      ☐ a lever  
☐ a ramp      ☐ a pulley      ☐ stairs

2. What kind of machine is a **pulley**?

It is a \_\_\_\_\_.

3. What parts does a **pulley** have?

☐ string or rope      ☐ a fulcrum      ☐ an inclined plane  
☐ a ramp      ☐ a pulley      ☐ wheel with a groove

6. Tick the pictures which are examples of pulleys.



**Flag** that waves on the fort's flagpole.



**Computer** to send information by email.



**Cranes** that build skyscrapers.



**Hammer** that removes a nail from the wall.



**Elevator** that lifts people between floors.



A **ramp** to move things in and out of a truck.