The block and tackle

Let two pupils each grasp a round stick, such as a broomstick, and stand several feet apart. Tie a length of clothes line cord to one of the sticks and wrap it several times around both sticks so as to form a combination of pulleys. Ask a third pupil, smaller than the other two, to pull on the rope. He can easily pull the two sticks together despite the efforts of the pupils holding the sticks.

Make a list of devices in which pulley combinations are used to increase forces, (example, tow trucks.)