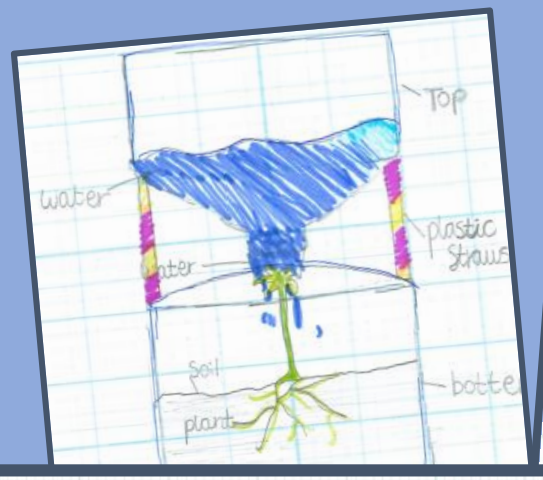
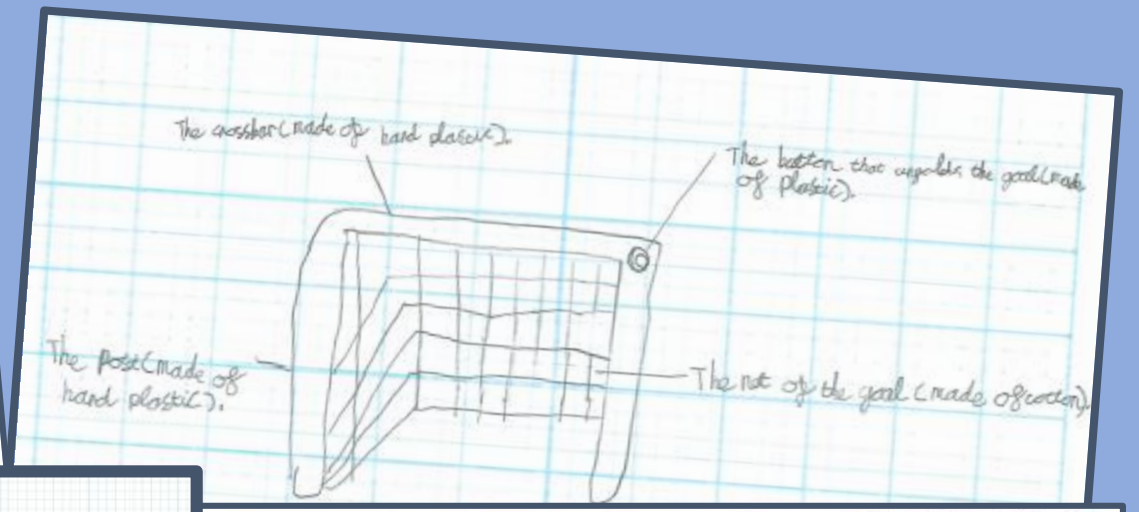
Lots of members of our junior classes have become mini engineers this year, coming up with very creative ideas for a new invention, meeting an engineer to find out about their job and writing about and drawing their inventions to enter a national competition. Well done to everyone who entered and, in particular to Sayuri, Livia and Marina, whose designs were very highly commended!



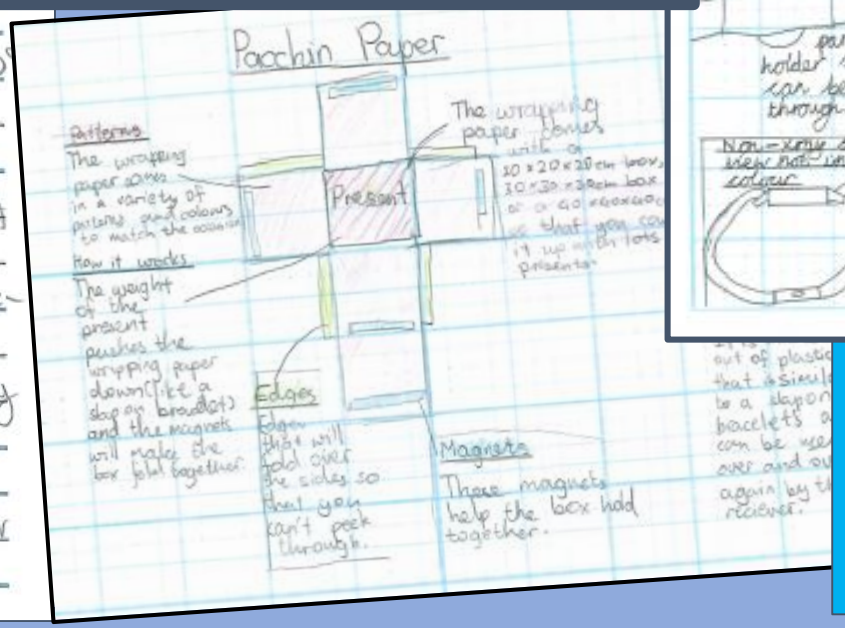


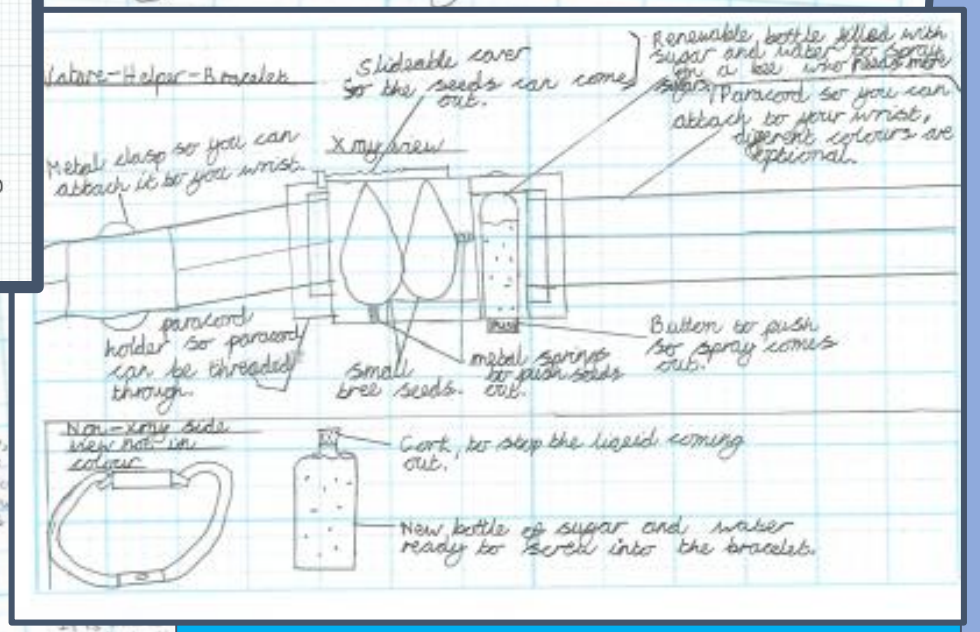
IF YOU WERE an ENGINEER WHAT WOULD YOU DO?®

Dear Madam/Sir,

I am designing a biomechanical Sho
Rotor / Restrictor which restricts the ra
of motion/rotation of the arm around
shoulder pivot-socket from 0° to 90° and
prevents the arm from being raised above 90°
so as to avoid dislocation.

For this project, I am inspired by the work of John Charnley who pioneered the design of an artificial hip for people needing hip replacement. Similarly, I recently dislocated my shoulder, so this project is motivated by my own experience and I hope that my design of the Shoulder Rotor will help people with similar injuries — help them with moving their dislocated shoulder in pain-free way.





Amongst many other amazing ideas, children designed inventions to help with present wrapping, to support those with dislocated shoulders, a portable kit help bumble bees and a fold up football goal!