**DT Challenge: Rollerball**

Your challenge this week is to design and make the longest roller ball run you can, using only materials that you can collect from around your house. This is best completed outside but can be done inside as well.

1. You need a small ball to play with (e.g. marble, pingpong ball, bouncy ball whatever you have.)
2. Choose a starting point; this works best if it is 30cm off the ground or higher if you want a harder challenge. You could use a chair or a window ledge.
3. Choose something for the ball to drop into when it reaches the finish point? (a bucket, upside down cone, flower pot, saucepan?)
4. Now the course is set gather your materials together to make your roller ball run with.
5. Once you have everything it is time to build your run!

Materials – remember to ask an adult if you can use the materials that you find. Think carefully about what shape would work best, cylinders work well here like poster tubes, kitchen roll liners. You could roll this up from your cupboard such as mats or paper, or tie up into a tube like bin bags or plastic bags.



**5 important rules!**

You cannot touch the ball when it has started rolling.

If the ball falls while it is rolling and touches the ground it must return to the start.

You cannot touch the materials making up the roller ball run while the ball is rolling on them. If your ball gets stuck, you can move other bits above or below to try and get it moving again.

The ball has to keep moving in the same direction the whole time, no turning back!!

Good luck designers and have fun!

Remember to take pictures and share with us on twitter or by email. We’d love to see them.