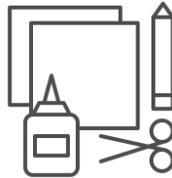
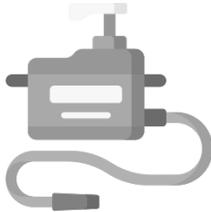


ENGINEERING A BLOOMING FLOWER!

EXPLORE HOW ENGINEERING AND ART COME TOGETHER TO CREATE A BLOOMING PAPER FLOWER! FOLLOW THE STEPS AND CRAFT YOUR OWN FLORAL MECHANISM.

AUGUST 2025



WHAT YOU'LL NEED:

- COLOURED CARD 
- PAPER STRAW 
- TISSUE/CREPE PAPER 
- GLUE 
- SCISSORS 
- DOUBLE-SIDED TAPE 
- MASKING TAPE 



Open Position



Closed Position



The Mechanism Behind the Motion:

This blooming flower uses a clever push-pull mechanism. A small piece of cylindrical card, slides up and down around the flower's stem. 🧰 🌸

This movement pulls on linkages connected to each petal. Since the petals are hinged at their base, they don't move straight up, but instead pivot outward, opening just like a real flower!

That means straight-line (linear) motion is turned into a beautiful blossoming action. Connect the cylindrical card to a servo horn on a linear actuator, then let a micro:bit take over the controls for automated motion! 🌸 🤖 💡