

Max's Mechanical Playground

Learning objective: To identify and understand how levers and linkages work in moving toys.

Max the monkey is building a toy! He needs your help to finish his mechanical designs. Look at the pictures of moving parts. Draw a line to match the mechanism to how it moves. Then, use the word bank to fill in the missing words in the sentences below.

Word bank: pivot · lever · linkage · push · pull

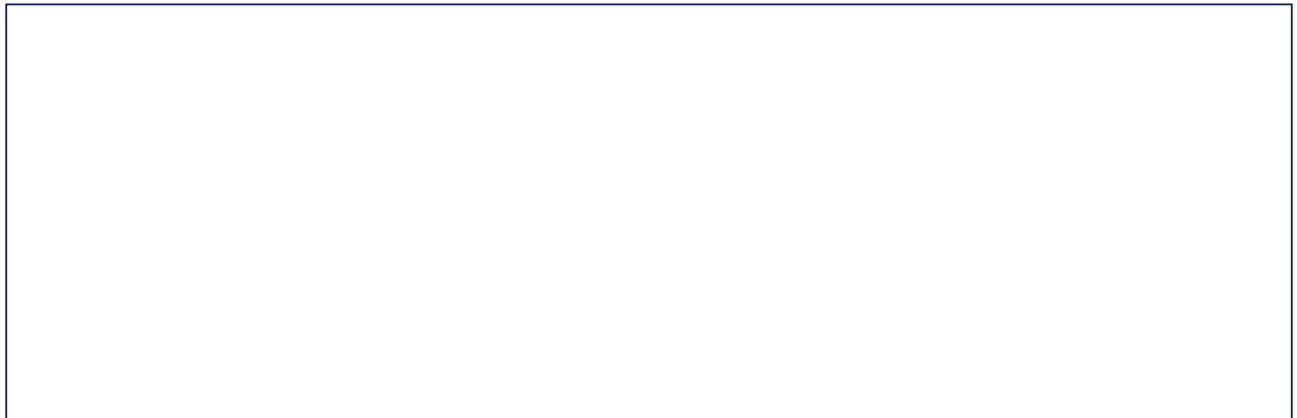
1. 1. A ____ is a rigid bar that moves around a fixed point called a _____. (2 marks)

2. 2. When you ____ the end of a lever, the other end moves up or down. (1 mark)

3. 3. A ____ is used to connect two moving parts so they work together. (1 mark)

4. 4. If you want a puppet's arm to move, would you use a lever or a linkage? Explain why. (2 marks)

Draw: Draw a simple lever mechanism. Show where the pivot is with a big dot and draw an arrow to show which way you push the bar to make it move.



Extension challenge: Max has £5.00 to buy card and split pins to make his toy. If he buys card for £2.50 and split pins for £1.20, how much money does he have left? Show your working out.