

Max's Mechanical Inventions: Levers and Pulleys

Learning objective: To understand how levers and pulleys help us lift heavy objects.

Help Max the monkey design a machine to move heavy fruit. Use the word bank to help you write your sentences.

Max the monkey wants to lift a heavy crate of bananas using his clever mechanical inventions.

Word bank: lever · pulley · load · effort · pivot · rope · easier · because · firstly · next

1. What is a lever? Explain how it works using the word pivot: A lever is... (2 marks)

2. How does a pulley help to lift a heavy load? A pulley helps because... (2 marks)

3. Which machine would you choose to lift a heavy box? I would choose a... (2 marks)

4. Why is it important to use these machines? It is important because... (2 marks)

Extension challenge: Can you design a label for your machine? Write the price of your invention in £ (pounds) at the bottom of your drawing.