Design & Technology AQA GCSE

Materials and objects can be manipulated to resist and work with forces and stresses

Materials required for questions

- Pencil
- Rubber
- Calculator

Instructions

- Use black ink or ball-point pen
- Try answer all questions
- Use the space provided to answer questions
- Calculators can be used if necessary
- For the multiple choice questions, circle your answer

Advice

- Marks for each question are in brackets
- Read each question fully
- Try to answer every question
- Don't spend too much time on one question

Good luck!

Q1. What is	the main force being exhibited during a tug of war?
Α	Compression
В	Tension
С	Bending
Q2. What is	the main force being exhibited when someone sits on a stool?
Α	Compression
В	Tension
С	Bending
Q3. What is scissors?	the main force being exhibited when someone cuts paper with
	the main force being exhibited when someone cuts paper with Torsion
scissors?	
scissors?	Torsion
scissors? A B	Torsion Tension
scissors? A B C	Torsion Tension Shear the man force being exhibited when someone crosses a wooden
A B C	Torsion Tension Shear the man force being exhibited when someone crosses a wooden
A B C Q4. What is plank bridge	Torsion Tension Shear the man force being exhibited when someone crosses a wooden

Q5. Describe what forces are acting on the bow and arrow in the image below before it is fired **(3 marks)**



Answers

- **Q1**. B
- **Q2**. A
- **Q3**. C
- **Q4**. C

Q5.

- Tension
- Compression
- Bending