# 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!

<b>Q1.</b> What is	the main force being exhibited during a tug of war?
Α	Compression
В	Tension
С	Bending
<b>Q2.</b> What is	the main worse 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
Α	Torsion
В	Tension
С	Shear
<b>Q4.</b> What is plank bridge	the man force being exhibited when someone crosses a wooden
Α	Compression
В	Torsion
С	Bending

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



#### **Answers**

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

#### Q5.

- Tension
- Compression
- Bending