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DESIGN AND TECHNOLOGY BASELINE TEST

WORLD ASSOCIATION OF TECHNOLOGY TEACHERS

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SURNAME
FORENAME(S)
SCHOOL
GROUP TEACHER

30 MINUTES ALLOWED

Equipment required for this examination:

- normal writing and drawing instruments
 - a calculator
 - a compass
 - coloured pencils

Instructions to candidates:

- Use a ball-point pen for writing. Use pencil / pen for drawing.
- Answer all questions.
- You must answer the questions in the spaces provided. Do all rough work in this book. Cross through any work that you do not want to be marked.

Information

- The marks for each question are displayed. The maximum mark for this paper is 40.

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	ACCURATE DRAWING AND MEASUREMENTS	
	Read the questions on the left hand side of the page and answer on the right.	
	QUESTIONS / INSTRUCTIONS YOUR ANSWERS	
www.technologystudent.com © 2018 V.Ryan © 2018	1. Print your name in BLOCK CAPITALS, between two faint parallel, straight, horizontal lines, 10mm apart. YOUR NAME	
ww.technol	(4 marks)	
https://www.facebook.com/groups/254963448192823/	2. Using a compass, draw a circle with the radius of 25mm. (4 marks)	
WORLD ASSOCIATION OF TECHNOLOGY TEACHERS	3a. Using a ruler, draw a square with 40mm sides.	
	3b. Carefully shade the square. Starting with dark on the left and gradually getting lighter, to the right.	
	(4 marks)	

PICTURE INSERT FOR QUESTION 4

A

LOTUS SPORT

LOTUS

Е

RALEIGH 'CHOPPER'



C

WALKING MACHINE



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a. Which of the bicycles A, B or C is t	he oldest?	LETTER	k: (1 mark)
Why do you think it is the oldest?	(3 marks)		
b. Which of the bicycles A, B or C is	the most intere	esting. LET	TER:
			(1 mark)
hy do you think it is the most interes	sting? (3	3 marks)	
C. Describe <u>ONE</u> improvement you	could make to	ONE of the I	oicvcles.
			(4 marks)
ETTER:			

CALCULATING

(Calculators permitted)

<u>INSTRUCTIONS</u>: In the shaded boxes are example questions and answers. You must answer the questions in the unshaded boxes.

RATIOS - YOUR EXAMPLE QUESTION AND ANSWER

An example of a ratio is:

4:1



Here we see 4 shaded circles compared to 1 unshaded circle.

5a. YOUR QUESTION

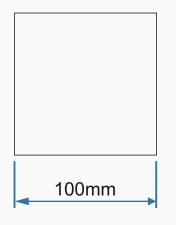
2 marks



Here we see ___ shaded circles compared to ___ unshaded circles.

2 marks

AREAS - YOUR EXAMPLE QUESTION AND ANSWER



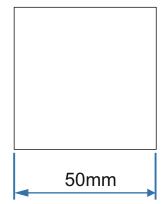
Calculate the area of the square shown opposite. The length of one side is 100mm

 $AREA = X^2$

 $AREA = 100mm \times 100mm$

AREA = 10000mm²

5b. YOUR QUESTION



Calculate the area of the square shown opposite. The length of one side is 50mm

 $AREA = X^2$

AREA = _____ X ____

2 marks

AREA = _____

2 marks

DESIGN AND IMAGINATION

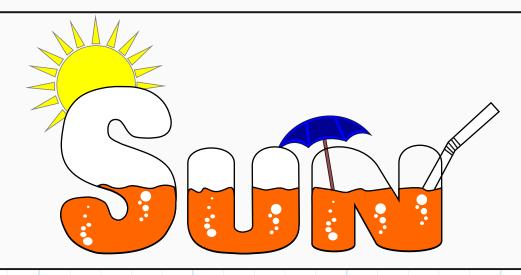
6. The example answer below, shows the word 'SUN', drawn in an artistic way. Colour and images that reflect the meaning of sun and sunny days, have been included, as an aspect of the design.

You are to convert the word 'WINTER', so that it is presented artistically. Your design should include: colours and images that reflect the meaning of the word.

(8 marks)

EXAMPLE ANSWER





YOUR QUESTION

