

ocr

Thursday 25 May 2023 – Afternoon GCSE (9–1) Computer Science

J277/02 Computational thinking, algorithms and programming

Time allowed: 1 hour 30 minutes

Do not use:
a calculator

Please write clearly in black ink. Do not write in the barcodes.

Centre number

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Candidate number

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First name(s)

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INSTRUCTIONS

- Use black ink.
- Write your answer to each question in the space provided. If you need extra space use the lined pages at the end of this booklet. The question numbers must be clearly shown.
- Answer **all** the questions.

INFORMATION

- The total mark for this paper is **80**.
- The marks for each question are shown in brackets [].
- This document has **20** pages.

ADVICE

- Read each question carefully before you start your answer.

Ocr Past Papers Science

Sue Young, Symond Burrows

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author names.

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Unveiling the Magic of Words: A Review of "**Ocr Past Papers Science**"

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together to move support a chicken's wing and relate this to the arrangement of comparable anatomical structures of the human body lab report you will submit a lab report on lined notebook paper

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describe how it feels station 4 straighten the chicken wing and hold it horizontally above the tray have your partner pull on each of the muscles and note the movement that each muscle causes turn the wing upside down and bend the joints pull on each muscle and note how the bones move 5a explain how pulling on muscles causes motion 5b

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the lab report will contain the sketch below labeled as instructed a completed version of the chicken wing dissection table answers to discussion questions a k and analysis questions 1 7 in complete sentences a thoroughly completed concluding paragraph joint b joint c joint a figure 1 draw a sketch and label before dissection make a

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chicken wing dissection how do the muscles bones and tendons work together to move a joint of a chicken wing and how do they compare to a human arm although many differences exist between the anatomy of humans and chickens one structure that shows similarities in muscle pairing and range of motion is a bird's wing

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conclusion 2 points 22 based upon your observations in this activity explain either how the chicken wing or the human arm moves using all the following terms in your answer brain muscles tendons bones joints you use the ball and socket joint the biceps will contract while the triceps extends the biceps will extend while the triceps

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raw chicken wing dissection scissors dissection pan probe gloves pre lab questions use your notes or the student workbook to answer these questions 1 what are the three basic types of muscle which type of muscle will be observed in the chicken wing 2 what is the difference between ligaments and tendons

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