



CONNECT2COLLEGE

COMPUTING PRE-ENROLMENT RESOURCE PACK



Computing

Relates to:

- L3 Industry Excellence Academy - Computer Science and Digital Development in partnership with Silverchip
- L2 Industry Excellence Academy - Cyber Skills for the Digital Age
- L2 Information and Creative Technology (I&CT)

<https://www.tmc.ac.uk/courses/industry-excellence-academy-computer-science-and-digital-development-partnership-silverchip>

<https://www.tmc.ac.uk/courses/industry-excellence-academy-cyber-skills-digital-age>

<https://www.tmc.ac.uk/courses/information-and-creative-technology-ict>

Problem solving:

Use your problem-solving skills to see who committed the crime
This is called **Pseudo-code** and is used to develop large programs

The Suspects

- Professor Plum
- Reverend Green
- Miss Scarlet
- Mrs Peacock
- Mr Black

Doctor Pink has been found murdered downstairs in the kitchen, battered by some lead piping, at 20:00 hours. By a process of elimination find out **whodunnit** by looking at the following pseudo-code.

```

IF TimeFound < 21:00 THEN
    IF (Location = Downstairs) AND (weapon=knife) THEN
        Reverend Green = innocent
    END IF
    IF (Location = Downstairs) OR (weapon=knife) THEN
        Mr Black = innocent
    ELSE
        Miss Scarlet=Innocent
    ENDIF
ELSE
    Professor Plum = innocent
END IF

IF Location<>Conservatory THEN
    IF Location=Kitchen THEN
        CASE Weapon of
            Gun: Mr Black=innocent
            Candlestick: Reverend Green = innocent
            Lead Piping: Mrs Peacock = innocent
            Rope: Professor Plum=innocent
        END CASE
    END IF
    IF (location<> upstairs) AND (TimeFound>12:00) Then
        Professor Plum = innocent
        IF location=kitchen THEN
            Miss Scarlet=innocent
        ENDIF
    ELSE
        Mr Black = innocent
    ENDIF
END IF

```

Answer: _____

Challenges:

Interesting facts on Computing and technology – See how many you can answer correctly

1. Who was the very first programmer?
2. What is the difference between a current CPU and a Quantum processor? (This is a tough one!)
3. Which company makes the XBOX? (Not as obvious as you may think)
4. What is the longest word that you can write only using the letters on one row of your keyboard?
5. Name 5 operating systems – and explain why your favourite is ‘better’ than the rest – Use the icons below as a guide

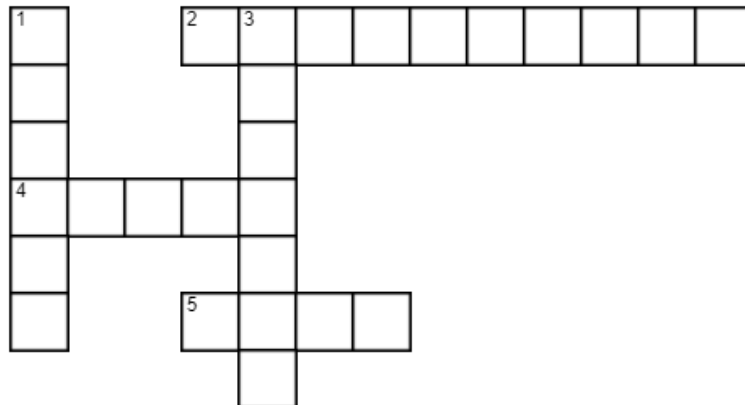


6. Who launched the company Pixar?
7. Fill in the gaps to reveal computer devices
 - a. H _ _ D D _ _ V _
 - b. P _ _ C E _ S O _
 - c. K _ _ B O A _ _
 - d. _ O U _ _
 - e. M O _ I T _ _

8. See if you can find the Office Applications in the crossword below

I.T & COMPUTING CROSSWORD

Office Applications



Other Interesting Things to Watch and Read

<https://northcoders.com/>

<https://wearecodenation.com/>

https://www.tmc.ac.uk/course-finder?keywords=&subject_area=54&qualification=All&segment=All&location=All