

Viva Exam – Computing – Year 8 – HT 2

Name:
Class:
Topic:

8.2 Networks

In this unit, you explored how computer networks work and why they are important in the modern world. You learned the difference between LANs and WANs, how data travels using packet switching, and how network topologies like star, bus and ring are structured. You also discovered how devices like routers, switches and servers help networks function, and examined the benefits and risks of cloud computing. Finally, you looked at how encryption is used to keep information safe as it travels across networks.

Now, you will speak about one of these topics, showing what you know and answering questions about it. Your teacher will pick the topic.

Your Viva exam supports you in developing your confidence, self-expression and curricular understanding. It does so by improving your oracy.

Across this Half Term you will prepare for a Viva exam on Digital Citizenship, which will be instead of your End of Term exam. Your teacher will help you prepare by suggesting topics, checking your progress, and giving you feedback.

Overview:

During this Viva you will need to plan and prepare to speak on whether you agree or disagree that forgiveness is more powerful than punishment. You will also need to answer one question (which you won't know in advance) from your teacher.

- Stage 1 – Your teacher will give you the topic for your Viva
- Stage 2 – Plan your speech and condense this plan into notes.
- Stage 3 – Practice your speech, learn to do it without notes and with greater confidence.
- Stage 4 – Share your speech with parents, peers and your teacher, for feedback.
- Stage 5 – Deliver your speech to the class and your teacher.

Expectations

Speak unaided and without interruption for three minutes on a Digital Citizenship topic. Answer two questions from your teacher or peers following your speech.

Cue cards may be used, but higher marks will be awarded for confident delivery without aids.

Topics and Suggested Talking Points

1. How packet switching works on the Internet

When preparing your speech on this topic, you may wish to consider the following points:

- - What packet switching means and why it is used.
- - How packets travel different routes.
- - Why this helps keep networks reliable.
- - Examples of data being sent using packet switching.

2. Differences between LANs and WANs

When preparing your speech on this topic, you may wish to consider the following points:

- - What a LAN is and where you find them.
- - What a WAN is and examples of WANs.
- - Advantages and disadvantages of each.
- - Devices used in LANs and WANs.

3. Network topologies: star, bus, and ring

When preparing your speech on this topic, you may wish to consider the following points:

- - What network topologies are and why they matter.
- - How star, bus, and ring topologies work.
- - Strengths and weaknesses of each.
- - Where each topology might be used.

4. Client-server and peer-to-peer networks

When preparing your speech on this topic, you may wish to consider the following points:

- - What client-server and peer-to-peer networks are.
- - Where they are used and why.
- - Advantages and disadvantages of both.
- - How security and control differ in each.

5. Cloud computing and its benefits

When preparing your speech on this topic, you may wish to consider the following points:

- - What cloud computing means.
- - Benefits of cloud computing for users and businesses.
- - Potential risks of cloud computing.
- - Examples of cloud services.

6. How encryption secures data

When preparing your speech on this topic, you may wish to consider the following points:

- - What encryption means and why it matters.
- - Simple examples of encryption.
- - Where encryption is used in everyday life.

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8.2 Networks -Feedback

Name:	Total Score:	
	Percentage:	
	Grade:	

Marking and Grading

	Level	Mark
Preparation		
Level 3 (4-5 Marks): Complete and exemplary evidence of preparation.		
Level 2 (2-4 Marks): Purposeful but incomplete evidence of preparation.		
Level 1 (0-2 Marks): Limited or no evidence of preparation.		
Timing and Content		
Level 3 (4-5 Marks): Speaks full time with clarity and focus.		
Level 2 (2-4 Marks): Speaks most of the time with some gaps or uncertainty.		
Level 1 (0-2 Marks): Speaks less than half the time or strays off topic.		
Manner and Presentation		
Level 3 (4-5 Marks): Confident, projects voice, uses rhetorical skill.		
Level 2 (2-4 Marks): Inconsistent projection, some rhetorical skill.		
Level 1 (0-2 Marks): Little or no projection or presentation skill.		
Response to Questioning		
Level 3 (4-5 Marks): Thoughtful responses to both questions.		
Level 2 (2-4 Marks): Responds to one or partially to both questions.		
Level 1 (0-2 Marks): Unable to respond clearly to either question.		
	Total Score:	
	Percentage:	
	Grade:	