

Lesson Plan: Computer Networks and Types of Networks

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Subject: Computer Science

Topic: Computer Networks and Types of Networks

Grade: 9

Duration: 45 minutes

Learning Objectives

By the end of this session, students will be able to:

- Define the term computer network and explain its importance.
- Identify different types of computer networks (LAN, MAN, WAN).
- Distinguish between network types based on coverage area and usage.

Teaching Materials

- Whiteboard and markers / Digital presentation
- Diagram showing types of networks
- Short video clip (3–5 minutes)
- Handout/worksheet
- Computer or projector
- Quiz or activity sheet

Introduction (5 minutes)

Objectives:

- Motivate students to think about computer communication.
- Introduce the concept of computer networks.

Activity:

- Ask students how messages are sent using the internet.
- Show a short video on computer networks.
- Define computer network.

Main Activity (30 minutes)

Objectives:

- Explain computer networks.
- Describe LAN, MAN, and WAN.

Step 1: Demonstration (10 minutes)

- Explain meaning of computer network.
- Advantages of networking.

- Types of networks with examples.

Step 2: Guided Practice (10 minutes)

- Students complete a comparison table of LAN, MAN, and WAN.
- Teacher assists and explains.

Step 3: Collaborative Task (10 minutes)

- Divide class into 3 groups.
- Each group presents one network type.

Assessment (5 minutes)

- Short quiz with MCQs and short questions.

Closure (3 minutes)

- Summary of LAN, MAN, WAN.
- Question-answer discussion.

Back-Up Plan

- Use textbook and whiteboard if ICT tools fail.

Assessment Criteria

- Knowledge of concepts.
- Understanding of differences.
- Participation and accuracy.

Homework

- Draw diagrams of LAN, MAN, and WAN.
- Write two examples of each.