Discussing Technology – Student Preview

Lesson Objective: To build vocabulary and fluency when talking about technology in everyday life and business contexts, while practicing discussion skills using real-world scenarios.

Core Vocabulary	Meaning
Software	Programs and applications used on electronic devices.
Hardware	Physical parts of electronic devices like computers or phones.
Internet	A worldwide network that connects computers and devices.
Cybersecurity	Protection of computers and data from unauthorized access.
Cloud Computing	Storing and accessing data over the internet instead of your device.
Artificial Intelligence (AI)	When computers simulate human intelligence.
Data Analytics	Studying data to find patterns and help make decisions.
E-commerce	Buying and selling goods or services online.
Social Media	Websites and apps where people share and connect with others.
Virtual Reality (VR)	A computer-made world that feels real when you use special equipment.
Big Data	Huge amounts of data that need special tools to understand.
Internet of Things (IoT)	Devices connected to the internet that share data with each other.
Blockchain	A secure and transparent way to record transactions digitally.
Augmented Reality (AR)	Adding digital images or information onto the real world.
Machine Learning	When computers improve at tasks by learning from data.

Hardware

- Can you name some common hardware components of a computer?
- Have you ever upgraded hardware components in a device?
- Why is it important to maintain hardware properly?

Sub vocabulary: motherboard, processor, peripherals

Internet

- How do you typically use the internet in your daily life?
- What are some advantages and disadvantages of using the internet?
- Have you ever experienced slow internet speeds? How did you resolve it?

Sub vocabulary: websites, browsing, broadband

Cybersecurity

- Why is cybersecurity important in today's digital age?
- What steps do you take to ensure your online accounts are secure?
- Have you ever experienced a cybersecurity breach? How was it handled?

Sub vocabulary: encryption, passwords, firewalls

Cloud Computing

- How do you use cloud computing in your personal or professional life?
- What are some benefits of using cloud storage?
- Have you ever encountered any challenges with cloud computing?

Sub vocabulary: cloud storage, synchronization, remote access

Artificial Intelligence (AI)

- What are some examples of artificial intelligence that you interact with regularly?
- How do you feel about the increasing use of AI in various industries?
- What potential benefits and drawbacks do you see in the development of AI?

Sub vocabulary: machine learning, algorithms, automation

Data Analytics

- In what ways can data analytics be useful in business?
- Have you ever used data analytics tools or software?
- How do you think data analytics can impact decision-making processes?

Sub vocabulary: data visualization, predictive analytics, insights

E-commerce

- How often do you shop online? What do you typically purchase?
- What are the advantages and disadvantages of e-commerce?
- Have you ever encountered any issues with online transactions?

Sub vocabulary: online shopping, digital payments, delivery

Social Media

- Which social media platforms do you use regularly?
- How do you use social media for personal or professional purposes?
- What are some benefits and risks associated with social media use?

Sub vocabulary: networking, influencers, engagement

Virtual Reality (VR)

- Have you ever tried virtual reality technology? What was your experience like?
- In what industries do you see potential applications for virtual reality?
- How do you think virtual reality could change entertainment and education?

Sub vocabulary: headsets, simulations, gaming

Big Data

- What types of organizations benefit from analyzing big data?
- How is big data used to improve decision-making processes?
- What challenges may arise when dealing with big data?

Sub vocabulary: data mining, analytics, insights

Internet of Things (IoT)

- Can you name some examples of IoT devices in your home or workplace?
- How does IoT technology improve efficiency and convenience?
- What are some potential privacy and security concerns associated with IoT?

Sub vocabulary: sensors, connectivity, automation

Blockchain

- How does blockchain technology work?
- What are some industries that could benefit from adopting blockchain?
- What are the advantages of using blockchain for transactions?

Sub vocabulary: cryptocurrency, smart contracts, decentralization

Augmented Reality (AR)

- Have you ever experienced augmented reality applications? Describe your experience.
- In what ways can augmented reality enhance user experiences?
- What are some potential challenges in implementing augmented reality technology?

Sub vocabulary: mobile apps, visualization, gaming

Machine Learning

- How is machine learning used in everyday applications?
- What are some benefits of using machine learning in business?
- What ethical considerations should be taken into account when developing machine learning algorithms?

Sub vocabulary: algorithms, training data, automation

Sub Vocabulary Words and Their Meanings

Hardware

Motherboard	The main circuit board of a computer.
Processor	The central unit that performs most tasks in a computer.
Peripherals	External devices like a mouse, keyboard, or printer.

Internet

Websites	Collections of related web pages accessible online.
Browsing	Exploring websites on the internet.
Broadband	High-speed internet connection.

Cybersecurity

Encryption	The process of converting data into a secure format.
Passwords	Secret keys used to protect accounts and data.
Firewalls	Security systems that monitor and control network traffic.

Cloud Computing

Cloud Storage	Storing files online rather than on a local device.
Synchronization	Keeping files updated across multiple devices.
Remote Access	Ability to use data or programs from anywhere online.

Artificial Intelligence (AI)

Machine Learning	AI that allows systems to learn from experience.
Algorithms	Step-by-step procedures for solving problems.
Automation	Using technology to perform tasks without human input.

Data Analytics

Data Visualization	Graphical representation of data.
Predictive Analytics	Using data to forecast future outcomes.
Insights	Key understandings derived from analyzing data.

E-commerce

Online Shopping	Purchasing goods or services via the internet.
Digital Payments	Transactions made electronically.
Delivery	The process of transporting purchased items to the buyer.

Social Media

Networking	Connecting with others online.
Influencers	People with large followings who shape opinions.
Engagement	Interactions such as likes, comments, and shares.

Virtual Reality (VR)

Headsets	Wearable devices that create immersive VR experiences.
Simulations	Imitations of real-world or imagined activities.
Gaming	Interactive entertainment using VR technology.

Big Data

Data Mining	The process of discovering patterns in large data sets.
Analytics	The examination of data to find useful information.
Insights	Key understandings derived from analyzing data.

Internet of Things (IoT)

Sensors	Devices that detect and respond to physical input.
Connectivity	The ability of devices to link and share data.
Automation	Technology enabling devices to operate independently.

Blockchain

Cryptocurrency	Digital currency secured by cryptography.
Smart Contracts	Self-executing contracts stored on blockchain.
Decentralization	Distribution of data across many locations.

Augmented Reality (AR)

Mobile Apps	Applications designed for mobile devices.
Visualization	Representation of information in visual form.
Gaming	Interactive entertainment using AR technology.

Machine Learning

Algorithms	Step-by-step instructions computers follow to learn.
Training Data	Data used to teach machine learning models.
Automation	Using technology to carry out tasks automatically.