IT Fundamentals Pro: Chapter 2.3 Digital Data

IT Fundamentals Pro: Chapter 2.3 Digital Data	
Grade	**11/12**
Unit of Study	**Information Technology Fundamentals**
Length of Unit	**36 Min**

Missouri Learning Standards	
15.1202-A1: Describe computer evolution (e.g., microcomputers and their relationship to current computing)	15.1202-A4: Identify information system components (e.g., Software, hardware, input, process, and output)

Unit 2.3: Learning Targets

I can:
- Describe the binary number system used by computers to process data.
- Describe how binary numbers can be translated into hexadecimal form.
- Define bits and bytes.
- Explain how physical signals are translated into digital information.
- Describe the most common character encoding standards, including ASCII and Unicode.
- Describe the most common units of measurement used for storage, throughput, and processing speed.

Intervention and Enrichment

Assessments

MLS (Learning Goal)	Description or Location
• 15.1202-A1 • 15.1202-A4	Ch. 2 Exam
	ITF+ (FC0-U61) Exam

Vocabulary

IT Fundamentals Pro: Chapter 2.3 Digital Data

Decimal System	Binary System	Hexadecimal System	Bit
Byte	Digital Data	Encoded Integers	Encoded Text
Processor Speed	Storage Space	Throughput	ASCII
Unicode			

Instructional Materials

Video/Demonstration
2.3.1 Number Systems
2.3.3 Digital Information
2.3.5 Data Representation

Additional Instructional Resources

2.3.2 Number System Facts
2.3.4 Digital Information Facts
2.3.6 Data Representation Facts

Reflections for Future Revisions