CRETECH – REFLECTION

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Lesson 1

The first lesson is about “Representing Information”. It shows that data can be used to solve problems.

Lesson 2

The second lesson is about “Patterns and Representation”. It shows that we can decode and encode using data.

Lesson 3

The third lesson is about “ASCII and Binary Representation”. ASCII, abbreviation of American Standard Code for Information Interchange, a standard data-transmission code that is used by smaller and less-powerful computers to represent both textual data (letters, numbers, and punctuation marks) and noninput-device commands (control characters).

Lesson 4

The fourth lesson is about “Representing Images”. It shows we can use binary to create an image called bitmap. Pixels are the fundamental unit of an image, it represents a single dot in an image.

Lesson 5

The fifth lesson is about “Representing Numbers”. It shows that we can use numbers to represent a single bit. Each bit can be combined to produce an image called bitmap.

Lesson 6

The sixth lesson is about “Keeping Data Secret”. It shows that binary is used to decrypt and encrypt information. In this way we can keep any data private. Encrypting and Decrypting is important for both physical and digital security.

Lesson 7

The seventh lesson is about “Combining Representations”. We combine the three types of binary representation systems: ASCII characters, binary numbers, and images to explore more ways to encode an information into a single record. ASCII are used to create binary tables.

Lesson 8

The eight lesson is about “Creating your own representation”. We just made our own bitmap using binary. Also learned to decode or decipher hidden information.