

# Encoding and Decoding

# Your Mission

The following slides contain encoded sentences.

- Decode the sentences.
- Describe the set of rules or pattern that encoded the sentence.

## Encoded Sentence:

25-15-21 19-15-12-22-5-4 20-8-5 6-9-18-19-20 15-14-5

### Rules/Pattern

Every letter corresponds to a number.

A = 1, B = 2, C = 3, ...

### Decoded sentence

(Use this space to work it out)

## Encoded Sentence:

KVTU LFFQ TXJNNJOH

### Rules/Pattern

Every letter is shifted by one.

- $A = B$
- $B = C$
- $C = D, \dots$

### Decoded sentence

(Use this space to work it out)

## Encoded Sentence:

REVELC SI SECNETNES GNISREVER

### Rules/Pattern

(Use this space to work it out)

### Decoded sentence

(Use this space to work it out)

**Encoded Sentence:**  
SENTENCE WIT MISSIN LETTER AR CONFUSIN

**Rules/Pattern**

(Use this space to work it out)

**Decoded sentence**

(Use this space to work it out)

## Encoded Sentence:

UOY ERA YAWFLAH ENOD

### Rules/Pattern

(Use this space to work it out)

### Decoded sentence

(Use this space to work it out)

## Encoded Sentence:

VEREOYEN OLEVS OCPMTURE CSEICNE

### Rules/Pattern

(Use this space to work it out)

### Decoded sentence

EVERYONE LOVES  
COMPUTER SCIENCE



## Encoded Sentence:

VOWOLS ORO OMPORTONT ON SONTONCOS

### Rules/Pattern

Every vowel is replaced with an "O".

### Decoded sentence

(Use this space to work it out)

## Encoded Sentence:

IS IT CATS RAINING DOGS AND

### Rules/Pattern

(Use this space to work it out)

### Decoded sentence

(Use this space to work it out)

# Decoded Sentence:

PUPPIES ARE CUTE

## Rules/Pattern

Pig Latin:

- If a word begins with a consonant:
  - the consonant is moved to the end
  - and an “ay” is added.
- If not:
  - only “ay” is added.

## Encoded sentence

**Note:** This time you are encoding the sentence.

## Encoded Sentence:

### Rules/Pattern

This time, come up with your own code. Then use it to encode a secret message!

### Decoded sentence

Write your cleverly coded secret message here

# Morse Code

You will use these Morse Code rules to decode the next few secret messages.

1. The length of a dot is one unit.
2. A dash is three units.
3. The space between parts of the same letter is one unit.
4. The space between letters is three units.
5. The space between words is seven units.

A ● —  
B — ● ● ●  
C — ● — ●  
D — ● ●  
E ●  
F ● ● — ●  
G — — ●  
H ● ● ● ●  
I ● ●  
J ● — — —  
K — ● —  
L ● — ● ●  
M — —  
N — ●  
O — — —  
P ● — — ●  
Q — — ● —  
R ● — ●  
S ● ● ●  
T —

U ● ● —  
V ● ● ● —  
W ● — —  
X — ● ● —  
Y — ● — —  
Z — — ● ●

1 ● — — —  
2 ● ● — —  
3 ● ● ● — —  
4 ● ● ● ● —  
5 ● ● ● ● ●  
6 — ● ● ● ●  
7 — — ● ● ●  
8 — — — ● ●  
9 — — — — ●  
0 — — — — —

# Rules/Pattern

## Morse Code

### Encoded Sentence:

— — — — —    · — ·    · · ·    ·  
— · — · — — — — —    — · ·    ·    · ·    · · ·  
— · — · — — — — —    — — — — —    · — · ·

### Decoded sentence

(Use this space to work it out)

# Rules/Pattern

## Morse Code

### Encoded Sentence:

— • — • — — — — — • — — • • — •  
• — — — • • — • — • • • — — — • •  
— — — — — • • • • — • — — —  
— — — — • • — • • — • • • — •  
• • • • • • • • • • — • •

### Decoded sentence

(Use this space to work it out)