

While you are waiting...when you are finished...

Letter	Decimal	5 bit Binary
A	1	00001
B	2	00010
C	3	00011
D	4	00100
E	5	00101
F	6	00110
G	7	00111
H	8	01000
I	9	01001
J	10	01010
K	11	01011
L	12	01100
M	13	01101

Letter	Decimal	5 bit Binary
N	14	01110
O	15	01111
P	16	10000
Q	17	10001
R	18	10010
S	19	10011
T	20	10100
U	21	10101
V	22	10110
W	23	10111
X	24	11000
Y	25	11001
Z	26	11010

Using the code, practice decoding these messages:

*(*Hint - Break the code into 5 bit pieces to decode the letters!!!)*

1) **Question:** What do you call a pig that does karate?

Encoded Answer:

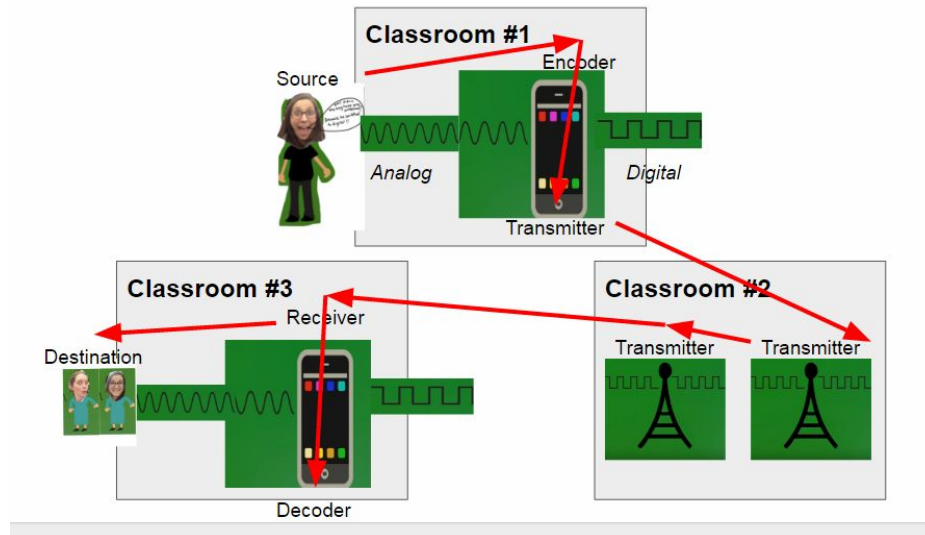
1000001111100100101100011010000111110000

2) **Question:** When the cookie was sick, how did he feel?

Encoded Answer:

000111001010101011010001011001

Here is a map of the activity:



1. Identify which station was yours: _____
2. Explain what you did at your station:

3. How it represented your step in sending digital signals:

4. Explain what happened at someone else's station:

5. How it represented their step in sending digital signals:

- On this page, DRAW your own diagram of sending a digital signal.
- Begin with a “SOURCE” and finish with a “DESTINATION.”
- Label all of the vocabulary words.
- You can have as many “TRANSMITTERS” as you’d like.

VOCABULARY -

The device that turns information into a digital signal.

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The person or machine that receives the decoded information.

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Device that sends encoded message towards its destination.

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A device that translates encoded information back into original form.

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The person or machine that has information to be delivered.

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Where the encoded information is accepted and sent to the decoder

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