

BREAK THE CODE TEACHER NOTES

Teacher directions:

Print the student handout page and cut the codes into strips, one per group.

Give each group one strip to decode.

Answer key:

1. Hello, how are you?
2. I love science.
3. Have a nice day!
4. What's your name?
5. Where do you live?
6. It was nice to see you!

DNA Code from: https://www.mrsec.psu.edu/sites/mrsec.psu.edu/files/dnas_secret_code.pdf

DNA CODE

| Codon | English | Codon | English | Codon | English | Codon | English |
|-------|---------|-------|---------|-------|---------|-------|------------|
| AAA | a | CAA | q | GAA | G | TAA | W |
| AAC | b | CAC | r | GAC | H | TAC | X |
| AAG | c | CAG | s | GAG | I | TAG | Y |
| AAT | d | CAT | t | GAT | J | TAT | Z |
| ACA | e | CCA | u | GCA | K | TCA | 1 |
| ACC | f | CCC | v | GCC | L | TCC | 2 |
| ACG | g | CCG | w | GCG | M | TCG | 3 |
| ACT | h | CCT | x | GCT | N | TCT | 4 |
| AGA | i | CGA | y | GGA | O | TGA | 5 |
| AGC | j | CGC | z | GGC | P | TGC | 6 |
| AGG | k | CGG | A | GGG | Q | TGG | 7 |
| AGT | l | CGT | B | GGT | R | TGT | 8 |
| ATA | m | CTA | C | GTA | S | TTA | 9 |
| ATC | n | CTC | D | GTC | T | TTC | 0 |
| ATG | o | CTG | E | GTG | U | TTG | space |
| ATT | p | CTT | F | GTT | V | TTT | . (period) |