Lesson Plan for Activity Encoding/Decoding Messages

Subject: Encoding/Decoding Messages

Concept or Skill Focus: Using cyphers to communicate

Goal: To learn how to encode and decode messages with cyphers

Length of Lesson: 45 minutes

Objectives/Outcomes:

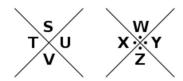
• Students will learn about encryption and different ways to encrypt their own messages.

Materials

- Paper
- Pencils / Pens
- Cypher Wheels
- Scissors
- Brad metal paper fasteners

Cypher Examples:

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G	Н	ī	P.	ġ	'n



Pig Pen Cipher

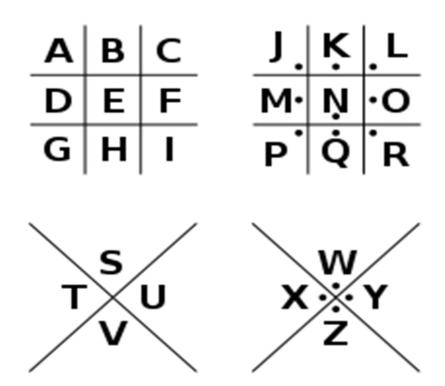
	1	2	3	4	5	6
1	A	В	С	D	E	F
2	G	Н	I	J	K	L
3	M	N	0	P	Q	R
4	S	Т	U	V	W	X
5	Y	Z	0	1	2	3
6	4	5	6	7	8	9

Number Grid Cypher

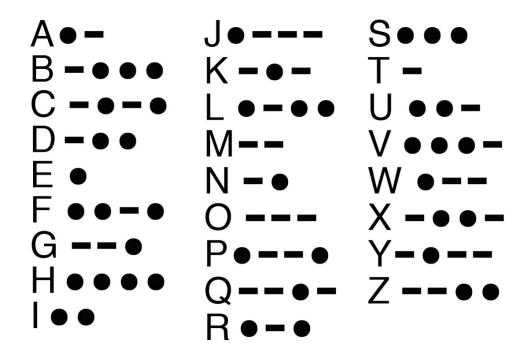
Activities and Time Line (Introduction, Middle, Conclusion)

- 1. Introduction
 - a. Talk about what encryption is, and how it is used in the world to help protect secret data. Explain how encryption works: someone can encode a message using a specific key or code, and only someone with the code that matches up can decode the message. Give some simple examples of codes that could be used: Pig Pen Cypher, Alpha-Numeric Cypher, Number-Grid Cypher, etc.
- 2. Let students encrypt their own messages using the cyphers shown.
- 3. Exchange papers with other students and try to decrypt each other's messages

Pigpen Decryption Key



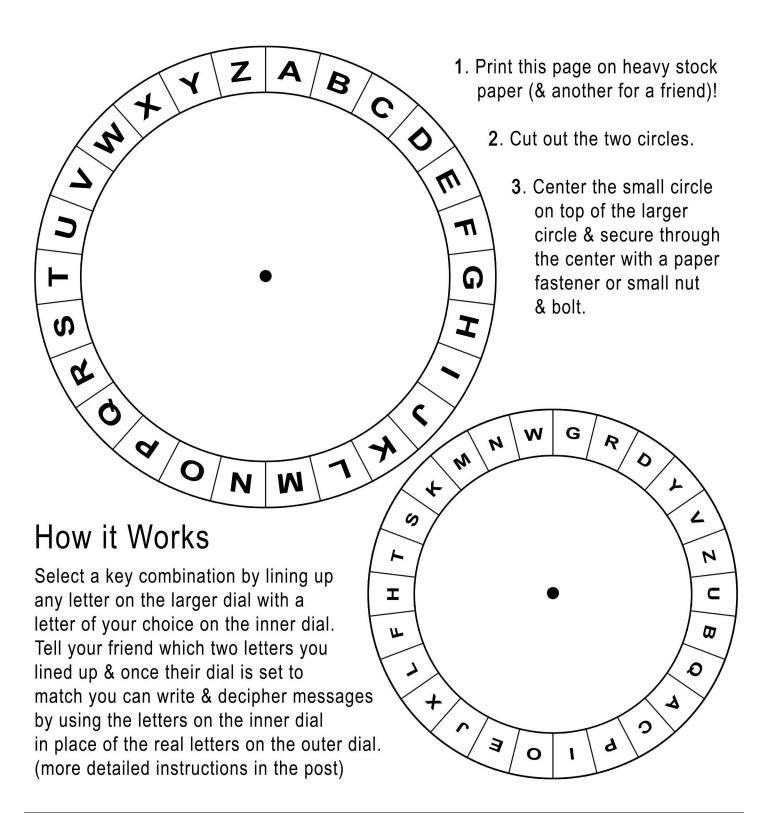
Morse Code Decryption Key



Decoder Wheel Activity: Random Alphabet Version



Create and decipher secret codes with your friends!



Decoder Wheel Activity: Custom Code Version



Create and decipher secret codes with your friends!

