

## Cracking Codes: Cryptology for Kids

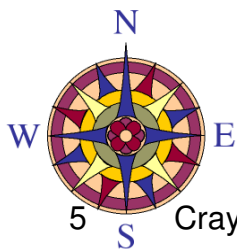
**Dates:** October 30, 2013 - December 18, 2013 (7 weeks)

**Instructor:** Sarah Hogue

**Objective:** Students will learn the language of spies and secret agents in this children's cryptology class. Cryptology is the science of secret writing which uses math and reasoning such as number patterns, sequences, and symbols to create and decode mystery alphabets. Each week students will learn one or more ciphers and will practice using them to write coded messages to each other and to decode class examples. Code systems in Quarter 2 include grilles, invisible ink, cover systems, number ciphers, and alphabet ciphers

### Preliminary Course Outline

<u>Week</u>	<u>Theme/Topic</u>
1	Number Ciphers <ul style="list-style-type: none"><li>• Creating the Message Using Simple Substitution</li><li>• Decoding</li></ul>
2	Number Ciphers <ul style="list-style-type: none"><li>• Addition, Subtraction, Multiplication (To Fool Codebreakers)</li><li>• Why Not Division?</li></ul>
3	Grilles <ul style="list-style-type: none"><li>• Identifying the Null Letters</li><li>• Adding Complexity</li><li>• Make Your Own Grilles With Paper and Hole Punch</li></ul>
4	Invisible Ink <ul style="list-style-type: none"><li>• Different Materials</li><li>• Developing Messages in Invisible Ink</li></ul>



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## 5 Crayon Cover

- Posterboard, Pencils, Crayons
- Combine For Code!

## 6 Key Word Ciphers

- Examples
- Decoding Messages with a Key

## 7 Key Word Ciphers

- Developing Key Word Ciphers
- Encrypting Messages

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