CRACKING CODES

CODE WHEEL

Print out the two code wheels and carefully cut them out. Then cut out the two windows marked in black on the top circle. Lay the top circle on top of the bottom circle. The two windows should line up with a letter in each ring of the bottom circle. Use a pencil to make a hole through the centre of the two circles and secure them together with a butterfly clip.

To use, simply turn the top wheel until it shows the letter you want to write, then write down the letter shown in the other window. Continue until you've finished your message.
**CRACKING CODES**

**PIG PEN**

This brilliant code places the alphabet on a series of grids, as shown below. It is almost impossible to decipher unless you know the secret.

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>J</th>
<th>K</th>
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<tr>
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<td>F</td>
<td>M</td>
<td>N</td>
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**MORSE CODE**

Morse Code was designed to be transmitted via the telegraph system. Originally this consisted of clicks sent through a wire that were listened to and translated by a telegraph operator. Later, this was automated so that the clicks made indents on paper tape to be read. The dots represent short clicks, and the dashes are long ones. You could use Morse Code by writing, by tapping, or even by using flashes of a torch.

| 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 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

For more on cracking codes, see pages 13-20 of *Spy Files*. 
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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  —
Ø  —
1  ———
2  ———
3  ———
4  ———
5  ———
6  ———
7  ———
8  ———
9  ———
```

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