

**UU- Project, Cyber security and code breaking**

8 schools 2 classes per day (30 pupils) e.g. 9-11:30am and 1-2:30pm (3 primary and 5 post- primary)

**Year 6-7**

1 hour 30 mins STEM Aware:

Code-breaking and intro to Code Breaking

• Why do we use passwords

• Examples of good passwords

• Look at Alan Turning and the Enigma machine.

• Ciphers: Substitution and Caesars

• Pupils write and break each others ciphers around the classroom.

• HTML coding- pupils learn to write simple HTML code

1 hour Kevin workshop

**Year 10-11 and 12-13**

1 hour 30 mins STEM Aware:

Code-breaking and intro to Code Breaking

• Why do we use passwords

• Examples of good passwords

• Look at Alan Turning and the Enigma machine.

• Ciphers: Substitution and Caesars

• Pupils write and break each others ciphers around the classroom.

• Raspberry Pi- coding using raspberry pi’s. STEM Aware have 7 raspberry pi’s and computers to

use.

1 hour Kevin workshop

**Budget:**

|  |  |
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| 2 days development | 500 |
| 2 days identifying appropriate schools and establishing initial contacts | 500 |
| Workshops, 8 schools: e.g. 3 primary 5 post-primary | 3400 |
| Travel | 500 |
| NI Sci Fest | 600 |
|  | 5500 |

Ref: NI Science Festival- need to talk about what this could be. 2 days of workshops, possibly in the university of Ulster? This needs more discussion.