Technologies & Enterprise  
**08. Digital Citizenship – Assessment Task 3**

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| **Binary Code Scavenger Hunt** | |
| Description of task | **Students are to research and choose 10 landmarks around the world.**  **These landmarks are to be presented on a PowerPoint**  **Students are to then create a cypher of each 10 landmarks.** |
| Assessment Type | **Inquiry & Analysis, Production & Processing** |
| Assessment strategy | Analysis |
| **Content description** | |
| Content from the Western Australian Curriculum | **Representation of data**  Binary is used to represent data in digital systems  **Collecting, managing and analysing data**  Evaluate and visualise data, using a range of software, to create information, and use structured data to model objects or events  **Digital implementation**  Design plans, using a sequence of steps, and represent them diagrammatically and in English, to solve a problem and to predict output for a given input to identify errors  **Producing and implementing**  Safely apply appropriate techniques to make solutions, using a range of components and equipment |
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| Assessment conditions | 4-5 Weeks |
| Resources | Computers  Binary Alphabet |

**Check List**

* **Part A: Landmark Research (Graphic Organiser)**
* **Part B: Landmark Presentation**
* **Part C: Binary Cypher**

**Student** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**08. Digital Citizenship**

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| **Marking Key** | |
| **Part A - Inquiry Booklet** | Marks |
| Part A – Landmark (1 mark per landmark name) | 10 |
| Part A – Location (1 mark per landmark location) | 10 |
| Part A – Fact (1 mark per landmark fact) | 10 |
| Part A – GPS Coordinates (1 mark per GPS Coordinate) | 10 |
| **Subtotal** | **/40** |
| **Part B – Binary Code** | Marks |
| Cypher Sheet is able to be followed and someone can accurately complete the cypher sheet | 5 |
| Cypher Sheet includes 3 clues, using accurate Binary Code | 4 |
| Cypher Sheet includes 2 clues, using accurate Binary Code | 3 |
| Cypher Sheet includes 1 clue, using accurate Binary Code | 2 |
| A cypher sheet is left, it includes the name of the person completing the task. Some use of Binary Code (not accurate) | 1 |
| **Subtotal** | /5 |
| **Part C - Presentation** | Marks |
| Meets design criteria: | |
| All text is a minimum 36 pt | /1 |
| Titles are in the same position on each slide | /1 |
| Graphic elements reflect the topic | /1 |
| Colour palette reflects the topic | /1 |
| Slides form a cohesive set | /1 |
| Presentation includes: | |
| The name of the 10 landmarks (1/2 mark each) | /5 |
| One fact per landmark – minimum of one complete sentence (1/2 mark each) | /5 |
| Detailed GPS Coordinates per landmark (1/2 mark each) | /5 |
| Address of each landmark (1/2 mark each) | /5 |
| Image of each landmark (1 mark each) | /10 |
| Subtotal | **/35** |
| Total | **/80** |

**Assessment Task**

Hooray! You have won an **Around the World** trip. On this trip, you visit 10 famous landmarks of your choice <https://kids.kiddle.co/Landmarks>, or not so famous - check out ATLAS OBSCURA at <https://www.atlasobscura.com/>

While you are away, technological issues make it difficult for your family to locate you. They need to use Binary Code to find out where you are!

**Part A: Landmark Research**

* Use the graphic organiser on the following page to select 10 famous landmarks you plan to visit.
* For each landmark, note the Name, Location, GPS Coordinates and one (1) Fact.

**Part B: Landmark Presentation**

* Transfer your landmark research information to a PowerPoint presentation.
* Design Criteria
  + All text is a minimum 36 pt
  + Titles are in the same position on each slide
  + Graphic elements reflect the topic
  + The colour palette reflects the topic
  + Slides form a cohesive set
* For each location, all information: Name, Location, GPS Coordinates and one (1) Fact, must appear on one slide. Add relevant images/illustrations and graphic features to create a cohesive travel presentation
* Including a Title page, you will have created eleven (11) slides.

**Part C: Binary Code**

* Use the Binary Alphabet to leave three (3) clues about one of the landmarks for others to find. Use the template provided.



**Part A: Landmark Research**

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| **EXAMPLE** | |
| **Name** | Giant Ram |
| **Address** | Wagin, Western Australia |
| **Fact** | Sculptor Andrew Hickson was commissioned to build the ram to commemorate the district’s role in the Australian wool industry. |
| **GPS** | -33.3115, 117.3389 |

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| **Landmark 1** | |
| **Name** |  |
| **Address** |  |
| **Fact** |  |
| **GPS** |  |
| **Landmark 2** | |
| **Name** |  |
| **Address** |  |
| **Fact** |  |
| **GPS** |  |
| **Landmark 3** | |
| **Name** |  |
| **Address** |  |
| **Fact** |  |
| **GPS** |  |
| **Landmark 4** | |
| **Name** |  |
| **Address** |  |
| **Fact** |  |
| **GPS** |  |

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| **Landmark 5** | |
| **Name** |  |
| **Address** |  |
| **Fact** |  |
| **GPS** |  |
| **Landmark 6** | |
| **Name** |  |
| **Address** |  |
| **Fact** |  |
| **GPS** |  |
| **Landmark 7** | |
| **Name** |  |
| **Address** |  |
| **Fact** |  |
| **GPS** |  |
| **Landmark 8** | |
| **Name** |  |
| **Address** |  |
| **Fact** |  |
| **GPS** |  |
| **Landmark 9** | |
| **Name** |  |
| **Address** |  |
| **Fact** |  |
| **GPS** |  |
| **Landmark 10** | |
| **Name** |  |
| **Address** |  |
| **Fact** |  |
| **GPS** |  |

**Part B: Landmark Presentation**

Display the information from Part A – Graphic Organiser as a PowerPoint presentation.

Refer to the task criteria.

Submit via Connect.

**Part C: Binary Code**

Using the binary alphabet below, create a cypher sheet with three (3) clues to tell people where to find you.

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| **A** | 01000001 |  | **a** | 01100001 |
| **B** | 01000010 |  | **b** | 01100010 |
| **C** | 01000011 |  | **c** | 01100011 |
| **D** | 01000100 |  | **d** | 01100100 |
| **E** | 01000101 |  | **e** | 01100101 |
| **F** | 01000110 |  | **f** | 01100110 |
| **G** | 01000111 |  | **g** | 01100111 |
| **H** | 01001000 |  | **h** | 01101000 |
| **I** | 01001001 |  | **i** | 01101001 |
| **J** | 01001010 |  | **j** | 01101010 |
| **K** | 01001011 |  | **k** | 01101011 |
| **L** | 01001100 |  | **l** | 01101100 |
| **M** | 01001101 |  | **m** | 01101101 |
| **N** | 01001110 |  | **n** | 01101110 |
| **O** | 01001111 |  | **o** | 01101111 |
| **P** | 01010000 |  | **p** | 01110000 |
| **Q** | 01010001 |  | **q** | 01110001 |
| **R** | 01010010 |  | **r** | 1110010 |
| **S** | 01010011 |  | **s** | 01110011 |
| **T** | 01010100 |  | **t** | 01110100 |
| **U** | 01010101 |  | **u** | 01110101 |
| **V** | 01010110 |  | **v** | 01110110 |
| **W** | 01010111 |  | **w** | 01110111 |
| **X** | 01011000 |  | **x** | 01111000 |
| **Y** | 01011001 |  | **y** | 01111001 |
| **Z** | 01011010 |  | **z** | 01111010 |

Each clue is to be written in Binary code.

* Use upper and lower case letters for your clues
* Use full sentences
* Use 00100000 to indicate a space between words

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| 01001101 | 01110011 | 00100000 | 01010111 | 01100001 | 01110100 | 01110011 | 01101111 | 01101110 |
| M | s | space | W | a | t | s | o | n |

**Your name:**

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**Clue 1:**

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**Clue 2:**

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**Clue 3:**

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**ANSWER**

**Name:**

**Can be found at:** (location).