**Year 8 Digital Technologies.**

**Worksheet 2: Decimal / Binary / Hexadecimal conversion**

1. Complete the table below.

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| **Decimal** | **Binary** | **Hexadecimal** |
| 43 |  |  |
|  | 00110101 |  |
|  |  | 4F |
| 211 |  |  |
|  | 11011001 |  |
|  |  | DA |

2. Odd one out.

Below are six words written as a hexadecimal string. Break each string up into two digit hexadecimal values. Convert the hexadecimal values to binary then convert the binary to decimal. Use the table at the end of the document to find each word. Finally, identify which is the odd one out and why.

43524F57

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4541474C45

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3. Football.

Which team won the 2016 AFL grand final? Write your answer in hexadecimal.

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| --- | --- | --- | --- | --- | --- |
| A | B | C | D | E | F |
| 65 | 66 | 67 | 68 | 69 | 70 |
| G | H | I | J | K | L |
| 71 | 72 | 73 | 74 | 75 | 76 |
| M | N | O | P | Q | R |
| 77 | 78 | 79 | 80 | 81 | 82 |
| S | T | U | V | W | X |
| 83 | 84 | 85 | 86 | 87 | 88 |
| Y | Z |  |  |  |  |
| 89 | 90 |  |  |  |  |