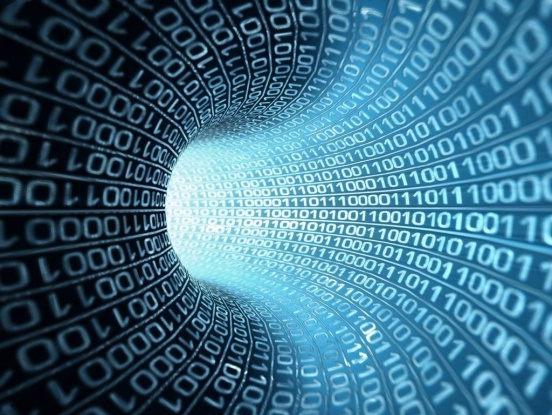
**Computer Science & Software Engineering**

** Binary to Hexadecimal Conversion**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_ Period \_\_\_\_\_

Technology Education Dept

Pittsford Central Schools

**Procedure**

To convert a binary number into a hexadecimal number, make groups of four bits starting with the LSB and moving to the left.

001011102  = 2E16

0010 = 2 1110 = E

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| HEXADECIMAL | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| DECIMAL | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |

**Convert the following Binary numbers to Hexadecimal:**

1. 00102 = 216

2. 1110112 = 3B16

3. 1101002 = 3416

4. 00011112 = F16

5. 10101112 = 5716

6. 11010012 = 6916

7. 11001102 = 6616

8. 10001102 = 4616

9. 00011002 = C16

10. 10011002 = 4C16