Brainscape



- Go to the flashcards page on **bpcompsci.com**
- Log in to Brainscape with your college Google account

Brainscape



- The flashcards have been split into sets to match when we teach the content
- We would recommend starting with only 1 set enabled
- When we have finished enough content to unlock a new set, we will have a short test on the content from the set just finished. 30 marks, 30 minutes.
- The first Brainscape test is in the week beginning 10th November

Starter

- 1. Convert –45.5 into two's complement binary. Write your answer using one byte, with one bit after the binary point
 - 1010010.1
- 2. Convert $6\frac{11}{16}$ into two's complement binary. Write your answer using one byte, with 4 bits after the binary point
 - 0110.1011

Topic 4.5 – Data Representation

Binary Multiplication

4.5.4.2 Unsigned binary arithmetic

Content	Additional information
 Be able to: add two unsigned binary integers multiply two unsigned binary integers. 	

Basics of binary multiplication

$$0 \times 0 = 0$$

 $0 \times 1 = 0$
 $1 \times 0 = 0$
 $1 \times 1 = 1$

Reminder of decimal column method

Binary column method

Note: Binary multiplication is just a sequence of shifts and adds of the first operand

Practice



1101 × 11

100111

Practice



10101 × 101

1101001

Practice



11101 × 10111

1010011011

Topic 4.1 – Programming

Procedures with Parameters

```
PROCEDURE Potato(quantity)
  PRINT quantity & " potato"
END PROCEDURE
PROCEDURE Main
  Potato(1)
  Potato(2)
  Potato(3)
  PRINT "4"
END PROCEDURE
```

Writing procedures with parameters

```
static void AskForAge(string name)
{
   Console.WriteLine("How old are you, " + name + "?");
   int age = int.Parse(Console.ReadLine());
}
```

Label:

- Procedure identifier
- Parameter
- Local variable
- Statement

PRIMM

- Predict
- Run
- Investigate
- Modify
- Make

Subroutines with Parameters PRIMM

This worksheet is on Google Classroom.