**Maths Level – GREEN** Higher (Functional Skills Level 1/2)

**Topic 1:** Number Recap

**Aim:** The aim this week is to recap on our number skills, looking at percentages, multiplication, division and word problems.

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| **Session 1** | **Length of session:** 40minutes |
| **Aim of session: To be able to calculate a percentage of an amount, as well as percentage increase and decrease.** | |
| **Important information:**  **Watch this video to help calculate percentages**  [Percentages - Video - KS3 Maths - BBC Bitesize](https://www.bbc.co.uk/bitesize/guides/z4482hv/video)  **To calculate 10% you divide your amount by 10**  **To calcualte 1% you divide by 100**  **To calculate 5% you divide by 100 and then mulitply by 5**  **To calculate 25% you divide your amount by 4**  **To calculate 50% you divide your amount by 2**  **To calculate 30 % you divide your amount by 10 and then times by 3**  **HOW TO GUIDE:**  **Example –** Calculate 15% of £50  Step 1: £50 ÷ 10 = £5 10% of 50 = 5  Step 2: To find 5% we divide 10% by 2 5 ÷2 = £2.50  Step 3: Add 10% + 5% = 15% 10%= £5  5%=£2.50 +  = 7.50 15%= £7.50 | |
| **Activity 1:**   1. 50% of £25.00 = 2. 10% of 770g = 3. Manisha had £125 in her savings, she spent 50% on clothes. How much does she have left?      1. Stef had 320 collectors’ cards, he gave away 25% of these cards to his friends. How many did he have left? 2. James saw new box game he wanted for £30 on sale reduced by 30%. What is the new reduced price of the game? | |
| **HOW TO GUIDE:**  **To increase an amount by 10% you add 100% + 10% = 110%**  **EXAMPLE : Calculate 10% increase on £500**  **Step 1: Find 10% of 500**  **500÷10 = £50**  **Step 2: Add 100% + 10%**  **500 +50 = £550 110% of 500 = £550** | |
| **Activity 2**   |  |  |  | | --- | --- | --- | | **Increase 210 by 5%** | **Increase 19 by 25%** | **Increase 97 by 50%** | | **Decrease 74 by 10%** | **Decrease 86 by 21 %** | **Decrease 130 by 99%** |   The price of a car service is £320. It increases by 15%. Work out the new price of a car service.  A pair of jeans cost £32. They are reduced in a sale by 12%. Work out the sale price of the jeans.  **CHALLENGE** | |
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| **Session 2** : | **Length of session:** 40minutes |
| **Aim of session: To be able be to multiply large numbers and numbers with decimals.** | |
| **Important information** | |
| **Activity 1 :**    When multiplying with decimals, you use the same technique. You just have to remember to add the decimal at the end.  Estimate your answer by rounding to nearest whole number e.g. 1x 9 = 9  This will help you make sure that your answer is right (As your answer should be close to the estimated number).  **How to Guide:**    **Activity 2:**    **1)**  2)21 x 231 3) 450 x 12  4) 4.6 x 3.1 5) 4.5 x 1.2  **6) Cleo earns £5.20 and hour and works 25 hours every week.** *Remember to use Gelosia*  a) What does she earn in one week?  b) What does she earn in 4 weeks?  c) What does she earn in a year? | |
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**Topic 1: NUMBER RECAP**

**Aim:** The aim this week is to recap on our number skills, looking at percentages, multiplication, division and word problems

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| **Session 3** : | **Length of session:** 40minutes |
| **Aim of session:** To be able to divide large numbers and use decimals | |
| **Important information:**  **Watch this video- some of you might have seen it in class.**  [LONG DIVISION - (Never Give Up) - Math Rap - Bing video](https://www.bing.com/videos/search?q=divsion+rap&view=detail&mid=1DF6FE63DF0AD6499A821DF6FE63DF0AD6499A82&FORM=VIRE) | |
| **Activity 1:**    **Activity 2**    **EXTENSION TASK** | |
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**Topic 1:** Number Recap

**Aim:** The aim this week is to recap on our number skills, looking at percentages, multiplication, division and word problems

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| **Session 3** : | **Length of session:** 40minutes |
| **Aim of session :** To be identify what operation is needed to solve these word problems. | |
| **Important information:**  **REMEMBER TO USE GELOSIA FOR MULTIPLYING BUS STOP METHOD FOR LONG DIVISION COLUMN METHOD FOR ADDITION AND SUBTRACTION**  **REMEMBER TO READ THE QUESTION CAREFULLY!** | |
| **Activity 1:**    **ACTIVITY 2**    **EXTENSION** | |
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