



# Lodge Farm Primary School- Knowledge Organiser

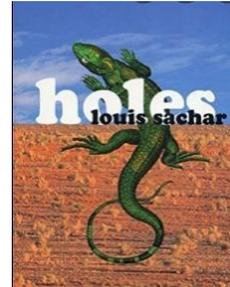
## Year 6 Term: Spring 1



### English

#### **Key Content:**

This half term, our class reading book is *Holes* by Louis Sachar. Children will explore a range of writing genres (adventure stories, balanced arguments and recounts) linked to their class reading book. They will plan, write, proof read, edit and produce a final 'best' version for each genre.



Reading lessons will be linked to their class reading book and will focus on:

- Inferring characters' feelings, thoughts and motives from their actions.
- Justifying inferences with evidence
- Predicting what might happen from information stated and implied.
- Participating in debates, challenging peers with questions, justifying opinions and responding to different viewpoints

#### **Spellings**

Children will bring home 10 spellings every week and will be tested every Friday. Please ensure that the children practise their spellings throughout the week using the Spelling Shed website in preparation for their spelling test.

#### **BoomReader**

Please help your child by ensuring that they read for at least 15 minutes each night and use the BoomReader app to log this information. In Year 6, they may read independently some evenings; however, they should be listened to by an adult.

#### **Curriculum Driver:**

Aspiration

### Maths

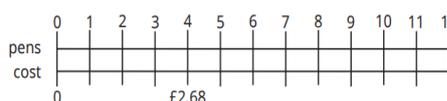
#### **Key Content:**

This half term our class will cover:

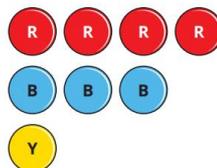
#### **Ratio**

Children need to be able to solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts. Children also need to explore the inverse relationships related to each of these, for example  $9 - 6 = 3$  and  $9 \div 3 = 3$ ; solve problems involving unequal sharing and grouping using knowledge of fractions and multiples; and solve problems involving the relative sizes of two quantities, where missing values can be found by using integer multiplication and division facts

4 pens cost £2.68



The ratio of red to blue to yellow counters is 4:3:1



▶ Use the double number line to work out the cost of 12 pens

▶ Use a double number line to help you work out the cost of buying:

- 36 pens
- 360 pens

If there are 148 red counters, how many yellow counters are there?



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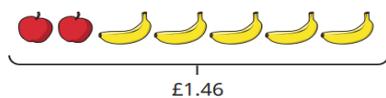
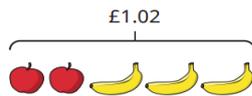
## Algebra

Children need to be able to use simple formulae; generate and describe linear number sequences; and express missing number problems algebraically. Children also need to be able to find pairs of numbers that satisfy an equation with two unknown numbers and enumerate possibilities of combinations of two variables.

Two apples and three bananas  
cost £1.02

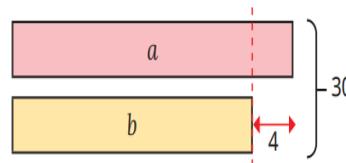


Two apples and five bananas  
cost £1.46



The sum of  $a$  and  $b$  is 30

The difference between  $a$  and  $b$  is 4



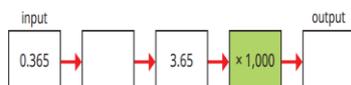
What is the total cost of one apple and one banana?

Use the bar model to work out the values of  $a$  and  $b$ .

## Decimals, Percentages and Fractions.

Children need to be able to identify the value of each digit in numbers given to 3 decimal places, and multiply and divide numbers by 10, 100 and 1,000 giving answers up to 3 decimal places. Children also need to be able to use common factors to simplify fractions; use common multiples to express fractions in the same denomination; associate a fraction with division; and calculate decimal fraction equivalents for a simple fraction. They also need to be able to recall and use equivalences between simple fractions, decimals and percentages, including in different contexts; compare and order fractions, including fractions greater and less than 1; and solve problems involving the calculation of percentages and the use of percentages for comparison.

Work out the percentages of amounts.



45% of 60

60% of 45

What do you notice?

## TT Rockstars

Times Tables Rock Stars is a carefully sequenced programme of daily times tables practice. Children should be logging on weekly at home to practice their times table recall.

**Curriculum Driver:** Understanding of the World