

# **The Ultimate Guide to Understanding Year Place Value Within 20 Autumn Term Block in White Rose Maths**

Welcome to our comprehensive guide on Year Place Value within 20 Autumn Term Block in White Rose Maths. In this article, we will delve deep into the concept of place value, the significance of understanding place value within 20, and how it is taught during the Autumn Term Block in White Rose Maths. Whether you are a student, a teacher, or a parent looking to support your child's learning, this guide has got you covered!

## **The Importance of Place Value**

Place value is a fundamental concept in mathematics that lays the foundation for understanding numbers and their relationships. It involves understanding the value of digits in a number based on their position within the number. For example, in the number 23, the digit '2' holds a value of 20, while the digit '3' holds a value of 3. By comprehending place value, students can perform various mathematical operations with confidence and accuracy.

## **Understanding Place Value Within 20**

A crucial milestone in a child's mathematical journey is developing a deep understanding of place value within 20. This means being able to recognize and articulate the value of each digit (0-9) within a two-digit number. For instance, in the number 19, the digit '1' represents one group of ten, while the digit '9' represents nine ones. This knowledge is essential for comprehending higher mathematical concepts.



## Year 1 PLACE VALUE (WITHIN 20) Autumn Term BLOCK 4 - White Rose Maths

by Balungi Francis ([Print Replica] Kindle Edition)

★★★★☆ 4.4 out of 5

Language : English

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Screen Reader : Supported

X-Ray for textbooks : Enabled



### Autumn Term Block in White Rose Maths

White Rose Maths is a renowned mathematics teaching organization that provides comprehensive and progressive lessons aligned with the UK National Curriculum. The Autumn Term Block focuses on place value and lays the groundwork for further mathematical concepts. It is designed to ensure students develop a solid grasp of place value within 20.

### Teaching Approach in Autumn Term Block

The teaching approach advocated by White Rose Maths combines concrete, pictorial, and abstract methods to enhance students' understanding of place value. Concrete materials like base-ten blocks are used to provide a hands-on experience, while pictorial representations such as ten frames aid in visualizing place value. This is gradually transitioned into abstract representations like numeral digits.

### Key Concepts and Strategies

#### Counting and Recognizing Numbers

During the Autumn Term Block, students practice counting and recognizing numbers within 20. They develop fluency in counting forwards and backwards, recognizing number patterns, and understanding the relationship between numbers. This serves as the foundation for building a strong understanding of place value within 20.

## **Comparing and Ordering Numbers**

Students also learn to compare and order numbers within 20. They explore the concepts of "greater than," "less than," and "equal to." By using various visual representations and manipulatives, students develop a deeper comprehension of the relative values of different numbers.

## **Partitioning Numbers**

Partitioning numbers is an essential skill for understanding place value within 20. Students learn to break down numbers into their respective tens and ones. For example, the number 16 can be partitioned as  $10 + 6$ . This breakdown allows students to visualize and understand the individual values of each digit.

## **Addition and Subtraction within 20**

Once students have a solid understanding of place value within 20, they apply this knowledge to addition and subtraction operations. They learn strategies such as using place value charts, number lines, and concrete materials to add and subtract numbers within 20. This hands-on approach enables students to grasp the underlying concepts more effectively.

## **Supporting Your Child's Learning at Home**

### **Engage in Everyday Maths Activities**

Encourage your child to apply their place value knowledge in daily life situations. Help them count objects, recognize numbers on street signs or prices in a supermarket, and engage in simple addition or subtraction tasks during everyday activities. Making maths a part of their routine will strengthen their understanding and make learning more enjoyable.

## **Use Online Resources and Games**

There are numerous online resources and educational games available that specifically focus on place value within 20. These resources often contain interactive activities, quizzes, and worksheets that provide extra practice and reinforce learning. Explore these resources with your child to enhance their understanding of this important concept.

## **Communicate with Your Child's Teacher**

Regular communication with your child's teacher is crucial for supporting their learning at home. Discuss your child's progress, any challenges they might be facing, and seek guidance on how to further reinforce their understanding of place value within 20. Collaborating with their teacher ensures a holistic approach to their education.

Understanding place value within 20 is a critical component of a child's mathematical development. The Autumn Term Block in White Rose Maths provides an effective and comprehensive approach to teaching this concept. By grasping the key concepts and employing various strategies, students can confidently navigate the world of numbers. With your support and engagement, your child can achieve mastery in place value within 20 and lay a strong foundation for future mathematical success.



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From White Rose Maths schemes for Year 1(Ages 5 to 6) Autumn Term BLOCK 4 – PLACE VALUE (WITHIN 20). The activities are designed to meet the aims of the national curriculum for mathematics:

- become fluent in the fundamentals of mathematics, including through varied and frequent practice with increasingly complex problems over time, so that pupils develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately.
- reason mathematically by following a line of enquiry, conjecturing relationships and generalisations, and developing an argument, justification or proof using mathematical language
- can solve problems by applying their mathematics to a variety of routine and non-routine problems with increasing sophistication, including breaking down problems into a series of simpler steps and persevering in seeking solutions.

Curriculum link for Year 1(Ages 5 to 6):

- count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number
- count, read and write numbers to 100 in numerals; count in multiples of twos,

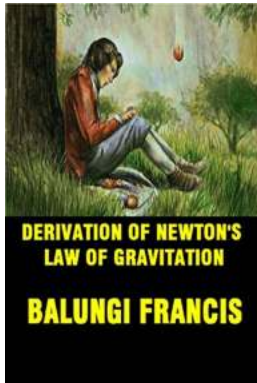
fives and tens

- given a number, identify one more and one less

- identify and represent numbers using objects and pictorial representations

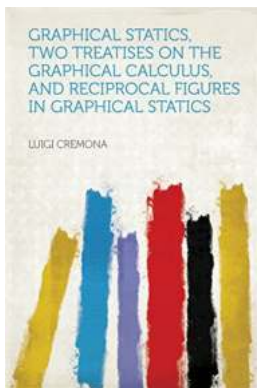
including the number line, and use the language of: equal to, more than, less than (fewer), most, least

read and write numbers from 1 to 20 in numerals and words.



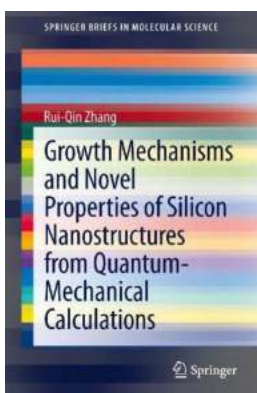
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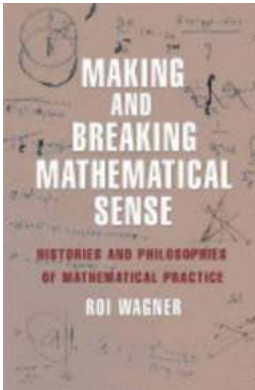
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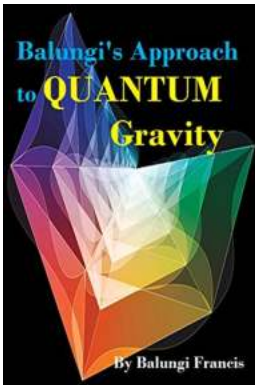
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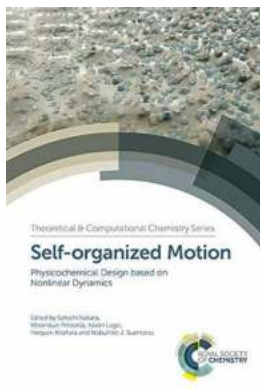
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NASA, SpaceX and  
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