Exploring Odd and Even Numbers

Objective
Students will understand and identify the properties of odd and even numbers using manipulatives.

Materials
- Two sets of different coloured blocks or counters (e.g., red and blue)
- Number cards (1-20 or higher, depending on the students' level)
- A worksheet with a table for recording results

Introduction
- What is an odd number?
- What is an even number?
- Even numbers can be divided into two equal groups without any leftover, while odd numbers will have one leftover when divided by two.

Activity Setup
- Give each student a set of coloured blocks and number cards.
- Ask the students to draw a number card and use the coloured blocks to represent that number.

Exploration
- For each drawn number, students will use the blocks to try and divide them into two equal groups.
- If they can divide them equally, the number is even. If there's one block left over, the number is odd.

Recording Results
- Students will record their findings on the worksheet by writing the number and marking it as odd or even.

Extension Activity
- Challenge students to find a rule for predicting whether a number is odd or even without using the blocks.
- For advanced students, introduce larger numbers and explore whether the patterns they noticed hold true.

Discussion
- After everyone has had a chance to explore, come together and discuss the results. Ask questions like:
  - "Which numbers were even?"
  - "Which numbers were odd?"
  - "What patterns do you notice?"