

INVESTIGATING ODD AND EVEN NUMBERS - SUMMARY

For Year Level 4

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This material relates to the following Australian Curriculum (Mathematics)

Outcome/s:

Investigate and use the properties of odd and even numbers (ACMNA071)

Rationale for Use

It is expected that students will have access to an array of practice material in the form of text books or school prepared exercises. The purpose of the AMSI materials is to support the development of **understanding** and **reasoning** about the concepts involved. They complement and enhance the teacher instruction elements of normal classroom instruction.

Explanation (What this includes):

Students will investigate and explain what happens when we add, subtract and multiply pairs of even numbers, pairs of odd numbers, or one even and one odd number. They'll explain why the result of a calculation is even or odd by looking at the numbers used in the calculation and predict whether the answer to our calculation will be even or odd by looking at the numbers used.

Resources:

1. **Read and Interact.** The 'MathsIsFun' site provides a great introduction to Even and Odd Numbers – and what happens when we add, subtract and multiply them together!

Read through this webpage and have a go at the 'Yooo Too' activities at the bottom!

<https://www.mathsisfun.com/numbers/even-odd.html>.

2. **View and Think:**

Watch the 'Homeschool Pop' video (about 12 minutes) on YouTube:

<https://www.youtube.com/watch?v=5ilMfDtEroE>

3. **Play and Explore.**

Here are a few ideas to have fun with on the 'Calculate', 'Nrich' and 'NZ Maths' websites:

- 'Odds and Evens Games' - <https://calculate.org.au/2018/10/15/odds-evens-games/>
- 'That's Odd' - <https://nzmaths.co.nz/sites/default/files/ThatsOdd.pdf>
- 'An Odd Spell of Maths' - <https://nzmaths.co.nz/sites/default/files/images/fio/30715/AnOddSpellOfMaths.pdf>

- 'Always, Sometimes or Never?' - <https://nrich.maths.org/12670>
- 'Take Three Numbers' - <https://nrich.maths.org/8063>
- 'Largest Even' - <https://nrich.maths.org/7431>

4. Solve problems and give reasons.

Use the AMSI Schools unit 'Even and Odd Orchardring' to explore the patterns we can make with even and odd numbers.

The unit can be downloaded from here: <https://calculate.org.au/2020/04/21/even-and-odd-orcharding/>