

SUDOKU Grades 3-5

Course Outline 1 (Advanced) (depending on level and achievement of students)

Week 1: Introduction to Sudoku and Different Grid Sizes

Week 2: Naked Single and Hidden Single Strategies

Week 3: Omission and Naked Pair Strategies

Week 4: Naked Triplet and Hidden Pair Strategies

Week 5: Naked Quad and Hidden Triplet Strategies

Week 6: Hidden Quad and X-Wing Strategies

Week 7: X-Wing Review and Swordfish Strategy

Week 8: Review and Practice

Course Outline 2 (Intermediate) (depending on level and achievement of students)

Week 1: Introduction to Sudoku and Different Grid Sizes

Week 2: Naked Single and Hidden Single Strategies

Week 3: Omission and Naked Pair Strategies

Week 4: Naked Triplet Strategy

Week 5: Hidden Pair Strategy

Week 6: Naked Quad Strategy

Week 7: Hidden Triplet Strategy

Week 8: Review and Practice

Detailed Course Outline

Week 1: Introduction to Sudoku and Different Grid Sizes

- Basic rules of Sudoku
- 4x4, 6x6, and 9x9 puzzles

Week 2: Naked Single and Hidden Single Strategies

- Introduce and practice the naked single and hidden single strategies, which involve looking for cells with only one possible number based on the surrounding cells.

Week 3: Omission and Naked Pair Strategies

- Introduce and practice the omission strategy, which involves using the process of elimination to determine the possible numbers for a cell based on the numbers in the same row, column, or box.

- Introduce and practice the naked pair strategy, which involves looking for two cells in the same row, column, or box that have the same two possible numbers.

Week 4: Naked Triplet and Hidden Pair Strategies

- Introduce and practice the naked triplet strategy, which involves looking for three cells in the same row, column, or box that have the same three possible numbers.
- Introduce and practice the hidden pair strategy, which involves looking for two cells in the same row, column, or box that have only the same two possible numbers.

Week 5: Naked Quad and Hidden Triplet Strategies

- Introduce and practice the naked quad strategy, which involves looking for four cells in the same row, column, or box that have the same four possible numbers.
- Introduce and practice the hidden triplet strategy, which involves looking for three cells in the same row, column, or box that have only the same three possible numbers.

Depending of level and achievement of students:

Week 6: Hidden Quad and X-Wing Strategies

- Introduce and practice the hidden quad strategy, which involves looking for four cells in the same row, column, or box that have only the same four possible numbers.
- Introduce and practice the X-wing strategy, which involves looking for two rows or columns with only two possible cells for a particular number, and using that information to eliminate other possibilities in those rows or columns.

Week 7: X-Wing Review and Swordfish Strategy

- Review the X-wing strategy and provide additional practice.
- Introduce and practice the swordfish strategy, which is similar to the X-wing strategy but involves three rows or columns with three possible cells for a particular number.

Week 8: Review and Practice

- Review all of the strategies learned in the previous weeks and their applications to Sudoku puzzles.
- Provide students with a set of Sudoku puzzles of varying difficulties to solve on their own, incorporating all of the strategies learned in the course.