# **SWITCH** Function CHEATSHEET



https://unleashedexcel.com/library/switch-function-cheatsheet

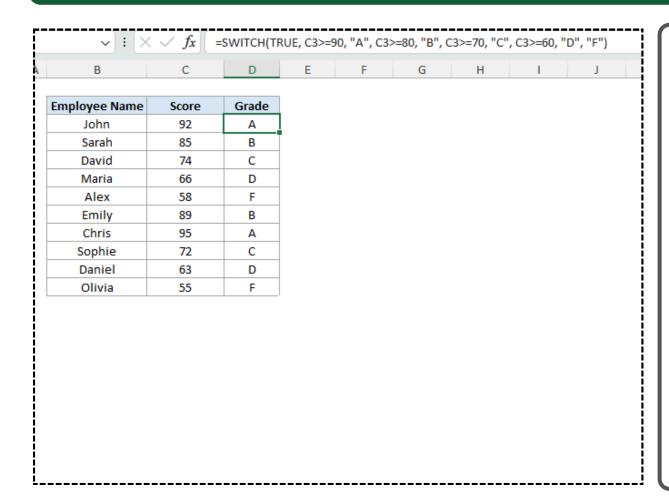
The **SWITCH** function evaluates an expression against a list of values and returns the result corresponding to the first match. If no match is found, it returns the default\_result (if provided). This is particularly useful when there are multiple predefined outcomes, making the formula more concise and readable compared to nested IF statements.

#### **SYNTAX**

fx | =SWITCH(expression, value1, result1, [value2, result2], ..., [default\_result])

- expression: The value or condition to evaluate.
- value1, result1: The first value to match and its corresponding result.
- [value2, result2]: Additional values and results (optional).
- [default\_result]: The result to return if no values match (optional).

## **EXAMPLE: Grades from Lowest to Highest**



- **TRUE as the Expression:** The SWITCH function evaluates conditions based on the first argument, which in this case is TRUE.
- Sequential Evaluation of Conditions:
  - C3 >= 90: If the score is 90 or above, the grade is "A".
  - C3 >= 80: If the score is 80 or above but less than 90, the grade is "B".
  - C3 >= 70: If the score is 70 or above but less than 80, the grade is "C".
  - C3 >= 60: If the score is 60 or above but less than 70, the grade is "D".
  - Default Value ("F"): If none of the conditions are TRUE (i.e., the score is below 60), the formula returns "F".

### Why Use SWITCH Instead of IFS?

- 1. **Simplified Syntax:** SWITCH offers a cleaner, more streamlined syntax compared to IFS, as it doesn't require repeating the comparison cell (e.g., C3) for every condition.
- 2. **Performance:** SWITCH evaluates conditions in order and stops as soon as one evaluates to TRUE, improving efficiency.
- 3. Default Value Included: The last argument acts as a default value, ensuring the formula covers all possible cases.

#### Perfect for:

- Assigning grades or labels based on score ranges.
- Reducing complexity in multi-condition evaluations.
- Ensuring your Excel formulas are readable and maintainable.