

CONVENTIONS TO WRITING A SCIENTIFIC ARTICLE

The secret to a great scientific article is not only the pioneering concepts that are reported and the way they are structured, but more importantly, the language that is utilised in a research paper.

This is a significant factor in how impactful the paper is. The language must be formal and academic, and the terminology must be appropriate for the concrete field of study.

For a paper to be truly outstanding, it is essential that the points are articulated intelligently and succinctly.

In an scientific article the author introduces a problem or problems, proposes possible solutions and evaluates the effectiveness of these solutions.

The author needs to use appropriate scientific vocabulary.

Some suggestions are found below.

Adjectives to introduce the focal issue:

central / main / major / common / immediate / serious / significant/ fundamental/ the most relevant/essential/focal problem

The central problem of this project was to....

The most significant issue during this project (number of the project to be inserted) was the....

Verbs:

Academic essays need to benefit from the correct use of verbs to help the author to present his/her ideas.

Purpose	Verbs
To show analysis	analyse, appraise, define, diagnose, explore, identify, investigate, observe
To summarize	assess, conclude, feature, highlight
To indicate control (to be stable or to maintain at a level)	constrain, control, govern, influence, inhibit, limit, maintain, prohibit, regulate, secure
To discuss findings	attest, confirm, contend, demonstrate, document, indicate, reveal
To state	comment, convey, elaborate, establish, identify, propose
To show increase	advance, development, enlarge, exceed, extend, facilitate, improve, increment, maximize
To show decrease	alleviate, cease, decline, depress, descent, deteriorate, minimize, subside, reduce
To show change	alter, accommodate, difference, evolve, fluctuate, generate, transform, transition, vary

Purpose	Verbs
To indicate information in a figure	depict, display, illustrate, portray, reveal
To indicate information in a table	classify, enumerate, gives, lists, presents, summarizes
To show parts	comprises, compose of, constitutes, encompasses, includes, incorporates
To indicate negative stand	challenge, contradict, disagree, dispute, reject, question
To indicate positive stand	confirm, compliment, corroborate, substantiate, support, uphold, validate, verify
To show approximation	approximate, estimate, resemble, predict
To increase	broaden, enlarge, exceed, expand, generate, improve, maximize, optimize
To decrease	decline, deteriorate, erode, minimize, narrow, reduce, worsen
To show change or difference or varying	alter, contrast, convert, deviate, differ, differentiate, distinguish, diverge, evolve, modify, revise, transform maintain, sustain
To shows stability	maintain, sustain
To show keeping within a certain range/ keeping under a certain level	confine, inhibit, prohibit, restrict
To show in-depth	study, analyse, examine, investigate, observe, survey
To state	acknowledge, argue, attribute, comment, propose establish, identify, mention, note, observe, state
To restate	elaborate, expand, emphasize, stress, acquire define, impact, signify, symbolize
To emphasize ideas/concepts	approximate, demonstrate, indicate, reflect,
To describe phenomena or data	hypothesize, propose
To state negative position	deny, dispute, negate, reject, contradict
To show uncertainty	predict, speculate
To show an extrapolation of information	deduce, imply, infer, project
To show components	comprise, consist, constitute, incorporate

Scientific papers often involve the description of processes and methodologies, which makes them even more important for the specific action word to be used.

Adverbs

To stress that a task or tasks have been performed in-depth	adequately, extensively, thoroughly comprehensively, exhaustively,
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Cause & effect language:

...leads to / results in / gives rise to / as a consequence / owing to / because of / as a result of

Cause and effect phrases:

This suggests

... is linked to ...

... is associated with ...

... connected to ...

... may be affected by...

Solution Adjectives:

long-term / short-term / proposed / effective / comprehensive / possible / practical / feasible / cost-effective / workable / realistic

Verbal phrases:

One possible solution that could be put forward is to....

One way of solving the presented problem is to ...

One reasonable approach to be taken could be to....

To provide a possible solution to the indicated problem is to ...

The proposal of the..... solution could be beneficial if ...

The suggested proposal/ solution to this problem is to ...

Evaluation

Implementation of these solutions would

However, ...

Although this solution provides....., there are a number of limitations.

The first one is....

Overall, these solutions offer a range of, but it needs to be highlighted that.....

Conclusion

In conclusion / To sum up / To conclude, ...

Of the solutions suggested, the..... would be the most effective due to/as/because

If clause :

If these solutions are implemented, then this would

If the solution is implemented, it would.....