Written Scientific and Technical Communication





Structure of a Scientific Paper

- Title, Authors and Affiliations, Abstract, Keywords
- Introduction
- Materials and Methods
- Results and Discussion
- Conclusion
- References

Structure of a Scientific Paper

- Title, Authors and Affiliations, Abstract, Keywords
- Introduction
- Review of Literature
- Methods
- Results and Discussion
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- Title, Authors and Affiliations, Abstract, Keywords
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- Methods
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- Acknowledgments
- Conclusion
- References

Context

Establish the importance of your work

Need

Write about the opposition between actual and desired situations

Task

Clarify your contribution as a scientist

Object

Prepare readers for the structure of the paper

Context

Anchor your context in time and space

Need

Emphasize the contrast with words like however, but etc.

Task

Ex.: During controlled experiments, we investigated the influence of the HMP boundary conditions on liver flows.

Object

Ex.: This paper presents the flow effects induced by increasing the hepatic-artery pressure and by obstructing the vena cava inferior.

Task

We applied, assessed, calculated, compared, explored, implemented... etc.

Object

The paper deals with, describes, presents, reports, summarizes... etc.

Amount/Quantity/Number

Amount: used with uncountable nouns

 Quantity (more formal): used with both countable and uncountable nouns

Number: used with countable nouns

Allow/Enable

Permit

Ex.: They allowed us to stay here.

Admit

Ex.: We must allow that money causes problems in marriage.

Allocate a certain amount

Ex.: Leaving a half inch of air space in the drum allows for expansion of the liquid on hot days.

Allow/Enable

1a: to provide with the means or opportunity

Ex.: training that enables people to earn a living

b: to make possible, practical, or easy

Ex.: a deal that would enable passage of a new law

c: to cause to operate software that enables the keyboard

2: to give legal power, capacity, or sanction to **Ex.:** a law enabling admission of a state

Despite/In spite of/Although

Despite, in spite of + NOUN
Despite his laziness, in spite of his laziness
Despite the fact that he is lazy...
In spite of the fact that he is lazy...

• Although + CLAUSE Although he is lazy...

Accuracy/Precision

 Accuracy is the degree to which a result agrees with the theoretical value.

 Precision indicates how well that result can be repeated.









Between/Among

used to describe one-to-one relationships

two items, groups, or people

Ex.: The chair is between the window and the sofa.

more than two items, groups, or people

Ex.: The negotiations between the cheerleaders, the dance squad, and the flag team were going well.

Between/Among

used to talk about things which are not clearly separated because they are part of a group or crowd or mass of objects

Ex.: The scandal caused a division among the fans.