





# Editorial Marking Grid

**Rule #1: There must be no plagiarism. Ever. No exceptions.**

## 1. Communication

### 1.1 ABSTRACT

It should clearly and concisely **summarise** the article, communicating the problem/objective, method and conclusions. It should **grab the attention** of a potential reader and should **not ramble or include any abbreviations/ undefined technical terms or references**.

			
<ul style="list-style-type: none"> <li>• Very long/rambling</li> <li>• Very technical</li> <li>• Very poor flow</li> <li>• No statement of objective/problem</li> <li>• No mention of method</li> <li>• No mention of conclusions/results</li> <li>• No summary of project</li> </ul>	<ul style="list-style-type: none"> <li>• Long/rambling</li> <li>• Overly technical</li> <li>• Poor/forced flow</li> <li>• Some statement of objective/problem</li> <li>• Some mention of method</li> <li>• Some mention of conclusions/results</li> <li>• Poor/inconcise summary of project</li> </ul>	<ul style="list-style-type: none"> <li>• Good length and flow</li> <li>• Quite accessible to readership</li> <li>• Good statement of objective/problem</li> <li>• Good statement of conclusions/results</li> <li>• Good, concise summary of project</li> </ul>	<ul style="list-style-type: none"> <li>• Great flow, no longer than necessary</li> <li>• Very good balance between clarity and detail</li> <li>• Excellent statement of objective/ problem</li> <li>• Conveys why it is interesting</li> <li>• Excellent communication of conclusions/results</li> </ul>

**EDITOR'S COMMENTS**

**SCORE /10**

## 1.2 READABILITY & STYLE

It should be **readable by the target group** i.e. ages 12 – 20. The concepts must be explained well and in a reader-engaging manner. **Excessive jargon and terminology** should be avoided and clearly explained if used. It should be concise, unambiguous and should exclude unnecessary words. The author must be **coherent and avoid waffling**. Numerical results should be represented using **tables, graphs, charts etc.** if appropriate.

Standard technical writing style also includes:

- Avoiding personal language (e.g. I, we)
- Avoiding emotive and colloquial language (e.g. brilliant, useless, cool)
- Using technical and formal terms (e.g. exceeds specification, statistically insignificant, adequate for the intended use)
- Not using contractions (e.g. don't, won't, can't etc.)
- Defining all abbreviations and technical terms, erring on the side of caution
- Defining all symbols and including the relevant units where appropriate
- Using appropriate sections and headings

<ul style="list-style-type: none"> <li>• The article is not readable by teens</li> <li>• Excessive use of jargon</li> <li>• Lack of coherence</li> <li>• The sections and headings are not organised well</li> <li>• No use of tables/graphs if appropriate</li> </ul>	<ul style="list-style-type: none"> <li>• The article is readable but hard to follow by early teens</li> <li>• Somewhat coherent</li> <li>• The sections are somewhat cluttered</li> <li>• Tables/graphs are unclear</li> </ul>	<ul style="list-style-type: none"> <li>• The article is readable by teens</li> <li>• Good coherence</li> <li>• Good sectioning</li> <li>• Good use of tables/graphs to show results</li> <li>• Tables and graphs are clearly presented with headers and a legend</li> </ul>	<ul style="list-style-type: none"> <li>• The article is highly readable by target audience as well as scientists</li> <li>• Excellent coherence</li> <li>• Effective sectioning that helps in readability</li> <li>• Excellent use of tables/graphs to summarise results and any trends</li> <li>• Tables and graphs are very clearly presented with appropriate headers and an unambiguous legend</li> </ul>
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### EDITOR'S COMMENTS

**SCORE /10**

### 1.3 GRAPHICAL PRESENTATION

- Neat, simple and uncluttered diagrams/figures showing important features
- In case of photographs, good lighting and clarity
- Figures, graphs and tables clearly labelled
- Appropriate use of scales, labels, symbols, lines and legends
- Clear and concise captions
- Where needed, relevant units shown

#### EDITOR'S COMMENTS

**SCORE /5**

### 1.4 REFERENCES

- Articles should follow the Chicago referencing style
- Check that there are sufficient references
- Check that they are ordered correctly
- Ensure there is a valid link to the original source page, as opposed to just the author
- All claims, sources of external information and key assumptions used should be supported by references

#### EDITOR'S COMMENTS

**SCORE /5**

## 2 Scientific/Technical Content

### 2.1 INTRODUCTION/BACKGROUND/LITERATURE REVIEW

The introduction should give the reader an **effective and concise overview** of the work and outline its **aims and objectives**. The background should explain clearly the work's significance in a **broader scientific context** to an unfamiliar reader. It should **explain the significance** of the work both **within the field** and **in general**. The literature review should **discuss other studies** conducted in the field and how the other studies' results **relate to this work**. **Ensure all information included is relevant** and is not just being used to pad out an article. Bear in mind that an author may structure this part of their article differently – this is ok as long as all of these points are covered.

<ul style="list-style-type: none"><li>• No reference to title</li><li>• Excessive rambling, waffling etc.</li><li>• Insufficient depth of background</li><li>• Excessive depth of background</li><li>• Excessively long background</li><li>• No reference to significance of the research</li><li>• No mention of other studies' results</li><li>• Absence of literature review</li></ul>	<ul style="list-style-type: none"><li>• Somewhat rambling, waffling etc.</li><li>• Poor communication of introduction/background</li><li>• Overly long background</li><li>• Poor reference to significance of the research</li><li>• Little mention of other studies' results</li></ul>	<ul style="list-style-type: none"><li>• Good coherence</li><li>• Good communication of introduction/background</li><li>• Good reference to significance of the research</li><li>• Some mention of other studies' results</li></ul>	<ul style="list-style-type: none"><li>• Excellent coherence</li><li>• Context of work communicated excellently</li><li>• Significance of research is made very clear</li><li>• Highly effective conclusions and clearly presented results</li></ul>
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### EDITOR'S COMMENTS

**SCORE /5**

## 2.2 METHOD

The method section should outline in **sufficient detail how the research was conducted**. The **method should be appropriate** to the aims and objectives stated. Key decisions and **choices in methodology should be explained**, particularly regarding a **control or not**. Ensure that **sources of error are identified** and minimised as much as possible. If relevant, the adherence of the research to **applicable ethical standards** in the author's jurisdiction should be outlined in good detail.

<b><u>MARKS: 0-5</u></b>	<b><u>MARKS: 5-10</u></b>	<b><u>MARKS: 10-15</u></b>	<b><u>MARKS 15-20</u></b>
<ul style="list-style-type: none"> <li>• Plagiarism or references due not cited/missing (Plagiarism = 0)</li> <li>• Inaccurate science</li> <li>• No originality in research paper (if not presented as a review project)</li> <li>• Mere re-stating of old works (If not review project)</li> <li>• Results and conclusions missing</li> </ul>	<ul style="list-style-type: none"> <li>• Not all references are cited/missing</li> <li>• Science somewhat inaccurate</li> <li>• Originality is there but must be presented better</li> <li>• Results and conclusions need to be connected better</li> </ul>	<ul style="list-style-type: none"> <li>• All references in place</li> <li>• Science accurate</li> <li>• Writing and science are original</li> <li>• Good conclusions and results are presented</li> </ul>	<ul style="list-style-type: none"> <li>• Excellent references and in place</li> <li>• Science accurate and presented effectively</li> <li>• Science is original</li> <li>• Highly effective conclusions and clearly presented results</li> </ul>

## EDITOR'S COMMENTS

**SCORE /20**

## 2.3 CALCULATIONS/RESULTS

The **calculations should all be correct (and checked)** and numerical data given to an appropriate number of significant figures. All equations used should be presented **algebraically with all terms explained** before used to show results. **Example calculations** should also be included. Unnecessary, distracting or **unclear data visualisations should be omitted**. Appropriate **data interpretation** (trends etc.) should be presented. If **statistics** comprise part of the results, ensure they are appropriate and complete (e.g. error %, standard deviation). Check that the correct units are used and that any **unexpected/anomalous results** are pointed out.

<b><u>MARKS: 0-5</u></b>	<b><u>MARKS: 5-10</u></b>	<b><u>MARKS: 10-15</u></b>	<b><u>MARKS 15-20</u></b>
<ul style="list-style-type: none"><li>● Plagiarism or references due not cited/missing (Plagiarism = 0)</li><li>● Inaccurate science</li><li>● No originality in research paper (if not presented as a review project)</li><li>● Mere re-stating of old works (If not review project)</li><li>● Results and conclusions missing</li></ul>	<ul style="list-style-type: none"><li>● Not all references are cited/missing</li><li>● Science somewhat inaccurate</li><li>● Originality is there but must be presented better</li><li>● Results and conclusions need to be connected better</li></ul>	<ul style="list-style-type: none"><li>● All references in place</li><li>● Science accurate</li><li>● Writing and science are original</li><li>● Good conclusions and results are presented</li></ul>	<ul style="list-style-type: none"><li>● Excellent references and in place</li><li>● Science accurate and presented effectively</li><li>● Science is original</li><li>● Highly effective conclusions and clearly presented results</li></ul>

### EDITOR'S COMMENTS

**SCORE /20**

## 2.4 DISCUSSION

It should include **logical interpretations** and discussion of results. It must also tell the readers how the study undertaken is a part of a **larger picture** and how it is **significant**. **Why should we care about these results?**

### Original Research

- Are the results reasonable, and if not – why not?
- Do the results adequately address the stated aims and objectives?
- Is there a discussion on the level of agreement between theory and experiments,
- Is there a discussion on the applicability and limitations of relevant theories?
- Where applicable, is the relationship between variables stated?
- Are anomalous results present? If so, are they discussed?

### Magazine/Review Article

- Has the author evaluated the science presented so as to make the article unique? (~50% of the article, at a minimum 20%, should be evaluation as opposed to restating facts)
- Has the author presented an alternative view, a counterargument or an opinion?
- Have recent developments and potential applications in the field been discussed?

<ul style="list-style-type: none"> <li>• Discussion/Conclusions are intermingled with results</li> <li>• There is no discussion/conclusion section at all</li> <li>• The interpretations are not logical and have no relation with the results</li> <li>• It simply restates the results in words without evaluating them</li> <li>• Significance of the study and further research suggestions are not present</li> <li>• Broad context of the work is not mentioned</li> </ul>	<ul style="list-style-type: none"> <li>• Separate discussion section is present but not satisfactory</li> <li>• Interpretations follow in a semi-logical manner</li> <li>• Interpretations are convoluted and incoherent</li> <li>• The significance of the study is not stated enough to the reader</li> <li>• Broad context of the work is poorly communicated</li> </ul>	<ul style="list-style-type: none"> <li>• Good discussion with clear and concise main points</li> <li>• Good interpretation and communication of results</li> <li>• Significance of the study as part of the larger picture is mentioned</li> <li>• Broad context of the work is communicated well</li> <li>• Some mention of potential future developments</li> </ul>	<ul style="list-style-type: none"> <li>• All discussion is coherent and effective</li> <li>• Excellent interpretation that help reinforce the purpose of the study</li> <li>• Significance of the study as part of the larger picture is discussed effectively</li> <li>• The section suggests where and how to do further study or research</li> <li>• The discussion predicts further hypothesis, study or applications</li> </ul>
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**EDITOR'S COMMENTS**

**SCORE /20**

**2.5 CONCLUSION(S)**

- Is there a distinct, clear, concise conclusion section presenting a useful summary of the main findings and most important aspects of the discussion?
- Did the research fulfil the objective? If not, why not? (It is ok to be unsuccessful – but understanding why is the key to learning from mistakes)
- Why does this research matter?

Litmus test: If a person reads only the introduction, background and conclusion, will they have the essence of the article? If not, then something is not right.

<ul style="list-style-type: none"><li>• Conclusions are intermingled with another section</li><li>• Poor summary of article's results/findings</li><li>• Conclusions bear no relation to results or discussion</li><li>• Inclusion of material not already presented</li><li>• Conclusions missing</li></ul>	<ul style="list-style-type: none"><li>• Distinct conclusions section but poorly presented</li><li>• Verbose and unconcise conclusions</li><li>• Link with results and discussion tenuous</li><li>• Ineffective communication of article's findings</li></ul>	<ul style="list-style-type: none"><li>• Conclusions well formatted</li><li>• Conclusions are reasonably clear</li><li>• Good linking to results and discussion</li><li>• Somewhat coherent communication of the article's findings</li></ul>	<ul style="list-style-type: none"><li>• Conclusions excellently formatted</li><li>• Conclusions are very clear and concise</li><li>• Excellent logical connection with results and discussion</li><li>• Effective and coherent communication of the article's findings</li></ul>
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**EDITOR'S COMMENTS**

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**SCORE /5**







## **2.6 SCOPE & ORIGINALITY**

Is the article original and innovative or is it just a repeat of something done before? All articles should add some new insight or evaluation, either new science or some new opinion.

### **EDITOR'S COMMENTS**

**NO SCORE**

## Overall Score. Does the aggregated score place the article in the correct overall category?

			
<p><b>0-40</b></p> <ul style="list-style-type: none"> <li>• A poor article.</li> <li>• This article is not a standard acceptable for publication in a journal in both scientific content and communication.</li> <li>• <b>REJECTED</b></li> </ul>	<p><b>40-60</b></p> <ul style="list-style-type: none"> <li>• An average article.</li> <li>• The article is acceptable containing some good elements but needs substantial work before it is publishable.</li> <li>• <b>BORDERLINE – Second review necessary.</b></li> </ul>	<p><b>60-80</b></p> <ul style="list-style-type: none"> <li>• A good article</li> <li>• The article has good scientific integrity and concepts are generally well communicated. With some polishing the article can be published.</li> <li>• <b>ACCEPTED</b></li> </ul>	<p><b>80-100</b></p> <ul style="list-style-type: none"> <li>• An excellent article</li> <li>• The article is to a near professional standard with few/no errors. Some additional polishing will make this a professional grade article.</li> <li>• <b>ACCEPTED -Accelerated Publication</b></li> </ul>

Score \_\_/100