A simple *Science* LaTeX template

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This is a simple template to prepare papers in LaTeX for the *Science*-family journals. Abstracts start with one or two sentences of background, which should be comprehensible to any scientist. The following text should outline the main results of the research. Simple mathematical expressions can be included e.g. $a^2 + b^2 = c^2$. The final sentence of the abstract should state the main conclusions and implications.

The main text should begin with a brief introduction to the topic, at a level which is understandable by scientists in adjacent disciplines. Provide enough information to put your work in context, but do not attempt a comprehensive review.

General guidance on LaTeX: The *Science*-family journals accept papers written in LaTeX, but they are a minority of the submissions we receive. Our production department does not handle LaTeX directly, instead we use conversion software to automatically process the .tex file into a format they can use. That works well *provided the .tex file is straightforward*. Keep it simple and follow this template. Don't import additional packages or define complex new commands.

Figures and tables: These should be inserted at the end of the main text, as below (not in the middle of the text). Refer to them using e.g. Figure 1 (or Fig. 1) and Table 1.

Citing references: Science uses a numeric citation system. Cite references by number e.g. (*1*). The template will combine reference numbers automatically (*1, 2*), including ranges (*1–3*). Refer-

ence author names and years should be stated in the reference list, not in the text. If you want to add a comment, use the syntax [see (*1*) for details].

Referring to supplementary material: Whenever more details are given in the Materials and Methods section, cite an entry in the reference list that directs readers there, like this (*4*). To refer to material in the Supplementary Text section, just write (Supplementary Text). See guidance below for the difference between those two types of supplementary material. Supplementary figures and tables are referred to in lowercase e.g. figure S1 or table S1. Material in separate files needs to be hand coded e.g. data S1, movie S2.

Mathematics: Simple mathematical expressions can be inserted in the text like $2 \times 3 = 6$. Variables should be italic but textual labels are roman e.g. T_{max}. Explain the meaning of all variables on their first appearance. More complicated expressions should be entered as numbered equations, such as

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}. \tag{1}$$

Do not indent text immediately after an equation. They can be referred back to as e.g. Equation 1.

Formatting: Names of software packages should be set in small capitals e.g. NumPy. Use a non-breaking space between a number and its unit e.g. 7.4 km, and thin spaces between different parts of a unit e.g. 12 m s^{-1}. Use ± (not parentheses) to indicate uncertainties e.g. $g = 9.8 \pm 0.2 \text{ m s}^{-2}$.

An example heading

Research Articles and Reviews use headings to split the main text into sections; most other formats do not have headings.

Length limits: The *Science*-family journals impose limits on the number of words, figures/tables, and references cited in the main text. The limits vary between the journals and article types. Refer to the instructions to authors on the journal website for the current limits.
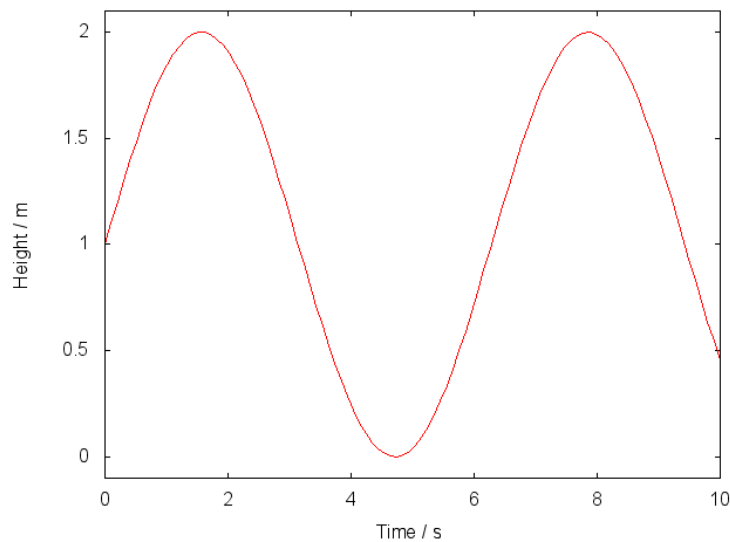
Figure 1: **All captions must start with a short bold sentence, acting as a title.** Then explain what is being shown, the meanings of any line styles, plotting symbols etc. Multi-panel figures must label the panels A, B, C, etc. and refer to them in the caption like this: (**A**) Description of panel A. (**B**) Description of panel B. Captions are placed below figures.

Table 1: **All captions must start with a short bold sentence, acting as a title.** Then explain what is being listed in the table, the meaning of each column etc. Captions are placed above tables.

Sample	*A*	*B*	*C*
	(unit)	(unit)	(unit)
First	1	2	3
Second	4	6	8
Third	5	7	9

References and Notes

1. A. N. Author, An example reference. *Journal of Improbable Research* **1**, 67 (2020).

2. F. M. Surname, S. Author, A second example. *Interesting Research Letters* **32**, 897 (2019).

3. P. One, P. Two, P. Three, An unpublished preprint (2021), arXiv:2101.12345.

4. Materials and methods are available as supplementary material.

5. F. Author, An example dataset, version number, Repository name (2021), doi:10.1000. dataset-DOI.

6. The title of a web page, Website name, `http://example.com/page`.

7. W. o. Textbooks, *A supplementary reference* (Imaginary publisher) (2021).

8. R. One, R. Two, A talk given at a meeting, in *Proceedings of an Example Conference*, D. Scientist, Ed., vol. 54 of *Series name* (2020), p. 22.

Acknowledgments

Here you can thank helpful colleagues who did not meet the journal's authorship criteria, or provide other acknowledgements that don't fit the (compulsory) subheadings below. Formatting requirements for each of these sections differ between the *Science*-family journals; consult the instructions to authors on the journal website for full details.

Author contributions: List each author's contributions to the paper. Use initials to abbreviate author names.

Competing interests: Disclose any potential conflicts of interest for all authors, such as patent applications, additional affiliations, consultancies, financial relationships etc. See the journal editorial policies web page for types of competing interest that must be declared. If there are no competing interests, state: "There are no competing interests to declare."

Data and materials availability: Specify where the data, software, physical samples, simulation outputs or other materials underlying the paper are archived. They must be publicly accessible when the paper is published (without embargo) and enable readers to reproduce all the results in the paper. Contact the editor if you're unsure what needs to be shared.

Our preference is for digital material to be deposited in a suitable non-profit online data or software repository that issues the material with a DOI. Alternatively, an institutional repository, subject-based archive, commercial repository etc. is acceptable, as are (short) supplementary tables or a machine-readable supplementary data file. 'Available on request' or personal web pages are not allowed.

Cite the relevant DOI (*5*), URL (*6*) or reference (*2*) in this statement. These *do not* count towards the reference limit if they are only cited in the acknowledgements. Be specific and state a unique identifier – such as an accession number, software version number or observation ID – so readers can easily retrieve the exact material used.

Declare any restrictions on sharing or re-use – such as a Materials Transfer Agreement (MTA) or legal restrictions – which must be approved by your editor. Unreasonable restrictions will preclude publication. Consult the journal's editorial policies web page for more details.

Supplementary materials

Materials and Methods
Supplementary Text
Figs. S1 to S3
Tables S1 to S4
References *(7-8)*
Movie S1
Data S1

Supplementary Materials for

A simple *Science* LaTeX template

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This PDF file includes:

Materials and Methods

Supplementary Text

Figures S1 to S3

Tables S1 to S4

Captions for Movies S1 to S2

Captions for Data S1 to S2

Other Supplementary Materials for this manuscript:

Movies S1 to S2

Data S1 to S2

Materials and Methods

The Materials and Methods section should contain details of the samples measured, experiments performed, observations taken, simulations run, data analysis, statistical methods etc. Give enough detail for any competent researcher in your field to fully reproduce the results.

To refer to this section from the main text, use the numbered note in the reference list (*4*). Refer to figures and tables in the same way as in the main text but now all capitalized e.g. Fig. 1, Table 1, Fig. S1 and Table S1. Cite references in the usual way (*2*), including any that are only cited in the supplement (*7, 8*).

The numbering of figures, tables, equations and pages has been reset to start from S1, as in

$$\cos(2\theta) = \cos^2 \theta - \sin^2 \theta. \tag{S1}$$

Example supplement heading

The two main sections of the supplement can be split up using headings.

Supplementary Text

The Supplementary Text section can only be used to directly support statements made in the main text e.g. to present more detailed justifications of assumptions, investigate alternative scenarios, provide extended acknowledgements etc. Material in this section cannot claim results or conclusions that weren't mentioned in the main text. To refer to this section from the main text, just write (Supplementary Text).

Example supplement heading

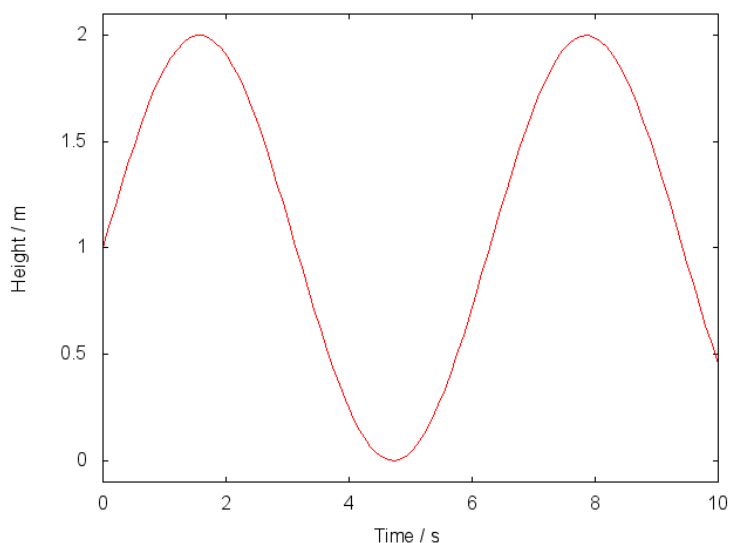The two main sections of the supplement can be split up using headings.

Figure S1: **All captions must start with a short bold sentence, acting as a title.** Follow the same style as main text figures. If the design is substantially the same as another figure, avoid repeating information e.g. say 'Same as Figure 1, but for the control sample.'

Table S1: **All captions must start with a short bold sentence, acting as a title.** Follow the same style as main text tables. If the design is similar to previous tables, avoid repetition by refering back to them.

A	B	C	D
1	2	3	4
2	4	6	8
3	5	7	9

Caption for Movie S1.   All captions must start with a short bold sentence, acting as a title.
Then explain what is shown in the supplementary video file. Give as much detail as you would for a figure e.g. explain axes, color maps etc. If the video is an animated equivalent of one of the static figures, state e.g. 'Animated version of Figure 1.'

Caption for Data S1.   All captions must start with a short bold sentence, acting as a title.
Then explain what is included in the supplementary data file. Give as much detail as you would for a table e.g. explain the meaning of every column, units used, any special notation etc.