

Writing a manuscript

You should be thinking about this when you plan your experiments.

Clear question
(context of existing literature)

**Methodology &
Data analysis**

Discussion



Why publish?

**I worked hard to
get the data!!**

It cost a lot!!

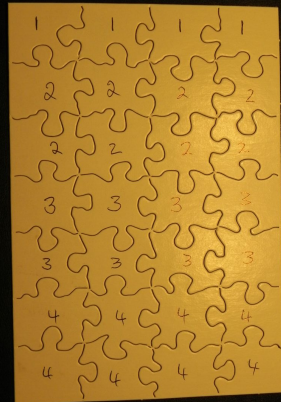
**It is new
information!!**

Originality:

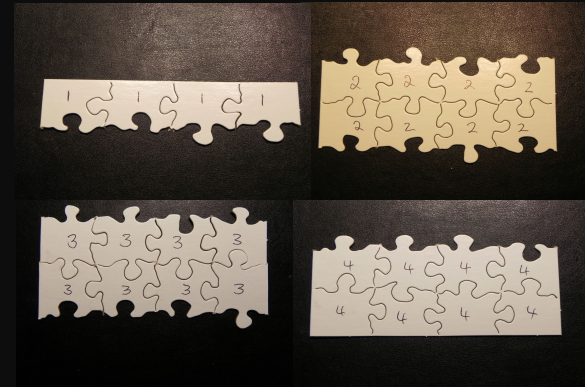
An article should contain
facts and *new ideas*,
placed in a valid context.

**Putting your work
in context of
current knowledge**

**However, do
remember you are
writing for your
readers...not
yourself.**



**1: Introduction
2: Methods
3: Results
4: Discussion**



Introduction

- what is the larger framework:
the context of your work with respect
current theories, hypotheses, etc in
the literature
- what are your questions
and hypotheses?

Introduction

**Don't have an exhaustive review
of the literature here, as you will
end up duplicating much of it
in the Discussion**

Materials & Methods

- Give a concise description
of protocols, so the reader can**
- (i) properly evaluate your results
and conclusions**
 - (ii) repeat the work if they wish**

Materials & Methods

- it is like a recipe
- avoid unnecessary information
- clearly explain the statistical
tests used to analyse data.

Results

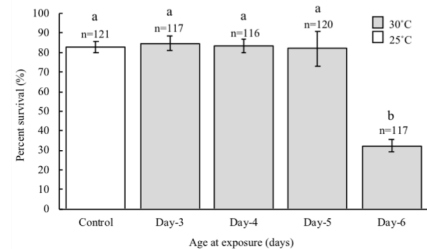
Give a clear and concise description of the findings you obtained

Results

Try to avoid lots of statistics in the text...

when possible include it in the figure legends or in tables

Results



Single heat exposure (% Survival)	
Age (days)	Mean ± S.E.
Control	82.82 ± 2.96
Day 3	84.73 ± 3.84
Day 4	83.15 ± 3.44
Day 5	82.12 ± 8.99
Day 6	32.39 ± 3.18

Discussion

- this is the body of the paper

- explain the significance of the data obtained

Discussion

- do so within the context of existing literature
- do not hesitate to postulate new hypotheses, or speculate as long as it is reasonable

Discussion

- Do not repeat the data presented in the results
- Avoid repetition of statements in the introduction.

Figures & Legends

Stand alone: should be easy to grasp..... even if you do not have the text!!

Chemicals found in my study

Pesticide residues found in apples from four orchards in southern Ontario, where different programmes of pest control had been used.

References

Verify that the works cited in the
text are also in the reference list
...and vice versa

References

Breeland, S. G. (1958). Biological studies on the armyworm, *Pseudaletia unipuncta* (Haworth). *Tennessee (Lepidoptera: Noctuidae)*. *J. Tenn. Acad. Sci*, 33, 263-347.

Briegel, H. (1990). Metabolic relationship between female body size, reserves, and fecundity of *Aedes aegypti*. *Journal of Insect Physiology*, 36(3), 165-172.

Delisle, J., & McNeil, J. N. (1986). The effect of photoperiod on the calling behaviour of virgin females of the true armyworm, *Pseudaletia unipuncta* (Haw.)(Lepidoptera: Noctuidae). *Journal of insect physiology*, 32(3), 199-206.

Hobson, K. A. (2019). Application of Isotopic Methods to Tracking Animal Movements. In *Tracking Animal Migration with Stable Isotopes* (pp. 85-115). Academic Press.

Peters, C. R., and J. C. Vogel. 2005. Africa's wild C-4 plant foods and possible early hominid diets. *Journal of Human Evolution* 48(3):219-236.

References

Breeland, S. G. (1958). Biological studies on the armyworm, *Pseudaletia unipuncta* (Haworth). *Tennessee (Lepidoptera: Noctuidae)*. *J. Tenn. Acad. Sci*, 33, 263-347.

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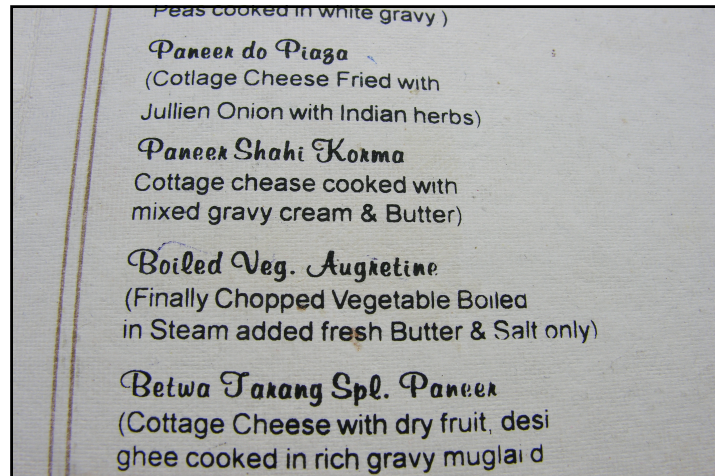
Delisle, J., & McNeil, J. N. (1986). The effect of photoperiod on the calling behaviour of virgin females of the true armyworm, *Pseudaletia unipuncta* (Haw.)(Lepidoptera: Noctuidae). *Journal of insect physiology*, 32(3), 199-206.

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Get someone outside of your
field to read it.

Check it over (several times)
before you send it off!!



When density goes *threw* (through) rapid changes there is a great deal at *steak* (stake) and is most pronounced when the population is at its *peek* (peak).

Golden rice is a variety that has been genetically modified by inserting a gene of a microbe and a daffodil.

Golden rice is a variety that has been genetically modified by inserting genes from a microbe and a daffodil.

**Where do you
sent it?**

**Clearly, the scope of
the paper will
determine where you
submit it for
publication**

**Description of a new
species in the Family
Politicidae: *Fordus
minicerebralis* found
in Ontario**

**Description of a new species
in the Family Politicidae:
Fordus minicerebralis and a
taxonomic revision of the
Family that includes *Trumpus
tweeteri*, *Macron
yellowvestera* and
*Mayus brexitium***

**How does the
the process
work?**

**Follow the
guidelines of the
journal when
preparing the
manuscript**

**It will be reviewed
by at least two
external referees
and an editor**

**-Accepted as is
-Minor revision
-Major revision
-Rejected**

Minor revision

**Minor editing
Add info to a section**

Major revision

**Methodology
Data analysis
Editing**

**You do not have
to take all
comments at
face value**