PHY1600 – Effective Communication for Physicists Some Common Grammar Difficulties

LIKE/AS/AS IF: 'Like' (a preposition) joins nouns and pronouns, or governs a noun; before phrases and clauses the equivalent word is 'as' (a conjunction). The over-use of 'like' in modern colloquial speech has made its misuse more likely. However, I support the safer, hard-line position of Strunk and White.

These are acceptable:

1. A is like B. (Here, "like" governs a noun) 2. A behaves as B does. ("as" introduces a clause with a noun and a verb). 3. Mercury is a planet like Venus. (acceptable grammatically, but ambiguous – Mercury, like Venus, is a planet). 4. He eats like a pig.

These, in formal writing, are not: 1. It was like we were thinking out loud. 2. He eats like there's no tomorrow. 3. Winston tastes good like a cigarette should. 4. She's a good student, like her brother was before her. 5. It looks like it's going to rain. 6. "It looks like the party is about to begin".

However, confusingly, in expressions where the verb is implied rather than expressed 'like' is admissible. 1. A behaves like B. 2. She's a good student, like her brother. 5. It looks like rain. 6. "Fluorescent tubes emit incoherent light, like a common light bulb". (The construction: "Fluorescent tubes emit incoherent light, as does a common light bulb", is correct but, in my view, excessively pedantic.)

Quick Tip - Do not use 'like' if 'as' or 'as if' will work.

AMONG /AMONGST: Either form is fine; 'amongst' is less common than the more modern 'among', but it is still in common usage.

AND/BUT: 'And' and 'but' are co-ordinating conjunctions, used to join individual words, phrases, and independent clauses. This definition implies that they should not normally be used as the first word of a sentence. However, occasionally they can be so used to give emphasis. I recommend that, only if you are very confident of your writing ability, should you start a sentence with 'and' or 'but'.

WHICH/THAT: 'That' is restrictive – the bicycle that is in the shed is green (referring to a specific bicycle). 'Which' is descriptive, e.g. adding some information about an object that has already been defined - the bicycle, which is in the shed, is green. 'Which' is not restrictive. The 'which' clause is contained within commas.

COMPRISE/COMPOSE. To comprise means 'to include' or 'to be made of'.

To compose means 'to make of' or 'to form'.

e.g. Water is comprised of H and O - is imprecise (not wrong)

BUT Water is composed of H and O - is better.

Both 'A soccer team comprises eleven players' and 'A soccer team is composed of eleven players' are both correct. 'Eleven players compose a soccer team' is correct, 'A soccer team composes eleven players' is not.

TOWARD/TOWARDS. Both are correct. I prefer the shorter one!

ABBREVIATIONS. In general, do not use abbreviations such as 'don't', 'can't', etc. in formal writing.

ACRONYMS. To be on the safe side, always define acronyms in parentheses immediately after the first use of the full description – e.g 'Candian Association of Physics (CAP)'.

PUNCTUATION. Punctuation is like the spice added to food; judicious use adds emphasis, interest, and liveliness, without overwhelming the basic flavour.

- Periods: experiment with removing periods that separate two closely associated sentences.
- Commas: read your work aloud or at least sub-vocally and insert commas only where you normally pause. In lists of three or more items, modern usage suggest a comma after each item, including the penultimate one (i.e.x, y, and z).
- Dashes: "A dash is a mark of separation stronger than a comma, less formal than a colon, and more relaxed than parenthesis" (Strunk and White). Note the implication: a dash can replace commas, colons, and parentheses. My suggestion is to avoid the use of dashes in formal writing.

ADVERBS. Adjectives modify (or qualify) nouns (big, blue, bad, better, etc.); adverbs qualify everything else - verbs, another adverb, a phrase, or a clause. (fast, late, often, yesterday, here, well, better, many words ending in –ly, etc.). Adverbial phrases take the place of one-word adverbs. While adverbs and adverbial phrases add much of the colour and excitement to fiction, poetry, advertizing, political discourse, etc., I believe that their use should be limited in formal scientific writing where precision is vital. I suggest that you comb your first draft and identify all adverbs and adverbial phrases. Then consider the effect of omitting each one; if the meaning is unchanged or, as is often the case, made stronger or more precise, remove it! – or, if necessary, replace it with more elegant, effective, or precise language. Of course, some adverbs and adverbs and adverbial phrases are the only ones you should retain.

Here are some examples:

1. The oven was very hot. *Remove 'very' – imprecise*.

2. In the past, experimenters used silicon to Remove 'in the past' – the verb gives the time.

3. Furthermore, this theory predicts ... Remove 'furthermore' – adds little to the meaning.

4. As such, the reasoning is faulty. *Remove 'As such' – this phrase adds nothing to the meaning. Never use it!*

5. Students were incredibly enthusiastic. *Remove 'incredibly' – this word should never be used in good writing unless it means 'impossible to believe'.*

6. The results are obviously wrong. *Remove 'obviously' – adds nothing to the statement, except a subjective opinion (obvious to whom?).*

7. I believe strongly that lectures are unnecessary. *Remove 'strongly' – adds little (''Methinks the lady doth protest too much''- W. Shakespeare).*

7. The research is largely incomplete. *Remove 'largely' – either it is or it isn't complete. You can't be somewhat pregnant! Never use largely, mainly, partially, fairly, etc.*

8. These magnetic fields are actually quite common. *Remove 'actually' and 'quite' – always! See 7 above.*

9. Not only do apples taste good, they are also good for your health. *Don't use 'not only ... but also' unless you mean to emphasize the contrast between two objects. Replace by a simple 'and'*

References: Strunk and White, *The Elements of Style*. Longman1999. Michael Alley, *The Craft of Scientific Writing*. Springer 1995

SHARPEN UP YOUR WRITING! (from Scientists Must Write by Robert Barass)

. Circumlocution: the use of many words where few

. Circumlocution: the use of many would do better	fords where few	Circumlocution	Better English	Circumlocution	Better English
	Better English almost everywhere move about a great deal in black and white if possible equals I hope I think you are right physiological mechanisms by experiment from dawn to dusk regularly trying to agree by anyone in particular to keep trying a talk reading and learning outside the kidney several influence no more than 25 000 words local action ten metres deep ten metres doeg ten metres long for about ten years for another fifteen years they eat in April the under fives in theory in education ten schools	In view of the fact that on account of the fact that if it is assumed that a sufficient number of at this precise moment in time a greater length of time during the time that on a regular basis it may well be that with the exception of using a combination of of a reversible nature which goes under the name of with the result that in all other cases are found to be in agreement with carry out experiments conduct an investigation into bring to a conclusion arrive at a decision make an adjustment to make an examination of undertake a study of take into consideration afford an opportunity to in conjunction with after this has been done on two separate occasions the question as to whether it is apparent therefore that in view of the foregoing circumstances	English because as if although enough now then longer while regularly perhaps except from reversible called so otherwise agree	Circumlocution try out open up aimed at count up check on later on prior to seal off in between inasmuch as a number of proved to be in regard to in all cases in order that in most cases at a later date a proportion of a great deal of at an early date in the nature of not infrequently in the event that to say nothing of has an ability to a small number of a large number of by the same token for the purpose of in connection with until such time as spell out in depth in this day and age	English try open for count check later before seal between since several were about always to usually later some much soon like often if and can few fwant for since several were about always to usually later some much soon like often soon like can few soon like can few soon like can few soon like can few soon like can for soon like can for soon like can for soon like can for soon like can for soon like can for soon like can for soon like can few soon like can few soon like can few soon like can few soon like can few soon like can few soon like can few soon like can few soon like can few soon like soon like soon like can few soon like few soon like few soon like few soon like few soon few soon few soon few soon few soon few soon few soon few soon few soon few soon like few soon few few few soon few few few few few few few few few few
They are without any sanitary arrangements whatsoever.	There is no sanitation.	have been shown to be	are	at the present time	

Prefer a short word to a long word if the short word is more appropriate

The unnecessary qualification of words

No.	and a second state of the second state of the			Incorrect
Prefer this	to this	Prefer this	to this	absolutely peri
do extra expect help simple use discovery begin about guess so much build show meet except show build first send	accomplish additional anticipate assistance simplistic application breakthrough commence concerning conjecture consequently considerable construct demonstrate encounter excepting exhibit fabricate firstly forward	suggest reputation sign person people please methods change partly preventive about is show shortened later enough end use almost guidance	hypothesize image indication individual individuals kindly methodology modification partially preventative regarding represent reveal streamlined subsequently sufficient terminate utilize virtually guidelines	the actual num an actual inves not actually tri almost unique almost perfect by means of a categorical de completely sur conclusive proo cylindrical in sh deliberately cho an essential con facing up to they are in fact few in number green in colour a positive identi small in size streamlined in ay stunted in growt

. Tautology: saying the same thing twice using different

Every individual one; may possibly go; on Friday 28th November next; the reason for this is because; in actual fact; one after another in succession; in the rural countryside; as an extra added bonus; I tentatively suggest; in my own personal opinion; on pages 1-4 inclusive; that by advance planning; will disappear from sight; in equal halves; in two equal halves; continue to remain; symptoms indicative of; temporary loan; but ... however; enclosed with this letter; or alternatively ground together; and enclosed with this letter; or alternatively; grouped together; and ... moreover; superimposed over each other; topographical features.

words

Incorrect	Correct		
absolutely perfect	perfect		
the actual number	the number		
an actual investigation	an investigation		
not actually true	untrue		
almost unique	not unique		
almost perfect	imperfect		
by means of	by or using		
a categorical denial	a denial		
completely surrounded	surrounded		
conclusive proof	proof		
cylindrical in shape	cylindrical		
deliberately chosen	chosen		
an essential condition	a condition		
facing up to	facing		
they are in fact	they are		
few in number	few		
green in colour	green		
a positive identification	an identification		
small in size	small		
streamlined in appearance	streamlined		
stunted in growth	stunted		
swampy in character			
quite impossible	swampy impossible		
quite obvious	obvious		
hard evidence	evidence		
real problems	problems		
realistic justification			
they really are	justification		
really dangerous	they are		
the smallest possible minimum	dangerous the minimum		
valid information			
very necessary	information		
very relevant	necessary		
very true	relevant		
wholly new	true new		