Lesson 4
Writing skills
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Welcome to the world’s first online course in science journalism, developed by the World Federation of Science Journalists in close cooperation with the Science and Development Network SciDev.Net.

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4.1 Introduction

A journalist writing about science may be competing against all sorts of other stories and needs to master rules that have much in common with writing about other topics for the media. You will be able to write interesting articles about science as long as you do your research, understand your topic, and have good communicative skills, and follow the normal rules of journalistic writing.

But there are some things that science journalists in particular need to keep in mind. How does one simplify complex scientific jargon, for example? Or how do we help readers comprehend numbers - such as those related to size, volume, weight, and distance - that might be extremely small or extremely large? Or more importantly, how does a science journalist write about a seemingly mundane topic in a way that holds the reader's attention from beginning to end?

By the end of this lesson, you should have an understanding of the basics of good journalistic writing. You'll also learn how to make writing about science more interesting. A piece about science does not have to be boring. There are some simple tricks and tools to this trade that can awaken the senses of adventure, curiosity, and inquisitiveness in young and old readers alike. Learn to use them and your articles will compete with others covering armed conflicts and natural disasters on the front pages of any newspaper or magazine!
4.2 Know who you are writing for

4.2.1 Your editor

Before you jot down a single letter on your paper or Word document, acquaint yourself with three of your most important critics: your editor, your audience, and yourself – and in that order!

Make sure you understand your editor well. Discuss your story idea first and get a feel for the angle he or she wants to see. Make sure you understand how long an article the editor needs and whether he or she expects pictures, diagrams, or any other additional material to help make your article more interesting.

It's important to understand that a delicate balance is needed while communicating with your editor. As noted in Lesson One of this online course, your editor will be busy, communicating with other writers in addition to the daily burden of getting several articles from the cooking pan and into the fire. So although he or she will appreciate your communication, it shouldn't take more than the exchange of a couple of emails for you to make a start. Otherwise, you may find that in future your editor just as easily switches to another writer who "gets on with the job" more quickly. Remember: this is a very competitive market!

But take heed – you know your story better than anyone else. Editors sometimes look for stories that just aren't there. Be confident in your research and communicate your findings clearly.

After you've written your article, expect your editor to ask for changes. This is one of the most important ways of getting to understand your editor well. Learn from the changes, not only to understand his or her requirements for next time, but also to improve your writing in general. Editors are writers' best teachers.

Always remember: no matter how many years you've been writing, there is always something more to learn, and room for improving your skills!

Communicate with your editor without being irritating. Be confident in your skills as a journalist but always be willing to accept direction.
4.2 Know who you are writing for
4.2.2 Your audience

If your editor is your gatekeeper, your audience is your coliseum. They are the people watching your every letter – so long as you grab their attention first!

As noted in Lesson One of this online course, audiences vary depending on the publication and its targets. They may be younger, older, well-educated or general audiences. They may be local to the publication, regional or international. And your writing should vary accordingly.

There are a few ways to figure out who a publication's audience is:

- Simply ask the editor.
- If the publication has a website, check the About Us page.
- Read some of the published articles to see the style of writing and story angles.
- Take a look at any section on audience feedback.

Use spellings and terminologies appropriate to the target audience – that helps to create a good impression on your editor and saves him or her the bother of having to make changes. With younger or more general audiences, you'll have to provide more background information and use simple terms – or at least explain some of the more difficult ones. With more specialized audiences, perhaps with a science background, do not over-simplify your topic or you will bore them.

A. Writing for children and young people
More difficult, perhaps, than mastering any other style of writing, is learning to write for children and young people. This is an audience with a short attention span and with more distractions than ever before. Journalists writing for children and youth must now compete with video games, the internet, satellite television and iPods. And although you must take care to be understood, don't underestimate their intelligence. Simplify the science, but don't patronize. And make sure to grab their attention from the very first sentence. Make your article short and interesting and use lots of examples, graphics, and supporting material. Stimulate, challenge, and make it fun!

**EXAMPLE:**
Read this story from National Geographic’s Kids:
International coastal cleanup: helping ocean animals survive
[ http://kids.nationalgeographic.com/Stories/PeoplePlaces/Coastal-cleanup ]

B. Writing for a general audience
If writing for a general audience, never assume that your audience knows a certain fact or understands a certain concept. Don't exclude readers - provide enough background and explanation for anyone to keep up with your topic regardless of their background. Yet at the same time make sure your article is interesting enough for a scientist who comes across your article in a daily newspaper.

**EXAMPLE:**
Take a look at this example from the United Kingdom's daily newspaper, The Guardian:
Brain scans pinpoint how chocoholics are hooked
[ http://www.guardian.co.uk/uk_news/story/0,,2157226,00.html ]
C. Writing for the scientific community
Members of the scientific community are aware of basic scientific concepts, but this doesn't mean they know all. Depending on their discipline, scientists will vary in their knowledge. So although you might not need to simplify the science, your writing should not resemble an academic report – you still have to work at grabbing your audience's attention!

EXAMPLE:
Read this story from Nature News, which targets the science community:
Superbug dissected

In summary, write in the language of your audience.
4.2 Know who you are writing for
4.2.3 Yourself

Discover your strengths and confidently develop your own writing style

Although it is important to write in a way that your editor and your audience will appreciate, it's also important to be yourself. Follow the basic rules of journalistic writing, but never lose your unique writing style. It is this that can eventually "make you" as a successful and much sought after journalist.

Learn about different styles of writing. Read as many different articles as possible and try to figure out why some appear more interesting than others, and why some articles get tremendous audience feedback while others don't. Read award-winning articles and try to understand why the judges selected these.

More importantly, re-evaluate your own articles over time and try to understand why some scored better than others.

Use all this information to discover yourself as a writer. Don't be afraid to try new styles or to take new approaches. You could try imitating other writers' styles as part of the process. But make sure that you aim, ultimately, to find your own unique style.

To get on top you need to be unique.
4.3 Writing a good story pitch

Before you learn how to write a good story, you need to learn how to write a good story pitch. If you can’t convince your editor that a story deserves publication, you certainly won’t convince your readers that a story deserves reading.

Editors are busy people so your story pitch needs to be brief and to-the-point. You will be competing with other story ideas, so your pitch must stand out.

Follow these general guidelines:

- Make sure the subject line of your email is interesting and relevant to your topic. Editors are inundated with e-mails every day, and may ignore an email with the subject line "Hi," for example. Write a subject line that is close to the title of the article itself. Think of something catchy and indicative of the topic.
- The pitch itself should be brief and focused. Your editor won’t want to open your email only to find endless paragraphs of explanations and arguments. Don’t exceed three organized paragraphs to sell your idea.
- In the pitch itself, it’s sometimes a good idea to write what resembles either the "nut graf" (see Section 6: Basics of feature writing [http://www.wfsj.org/course/en/L4/L4P09.html]), or the lead to an actual article. Write a couple of sentences that explain exactly what your article will focus on, as if you are writing part of the article itself.
- Explain to your editor how you intend to research your topic – who you plan to interview, for example – and what resources you will use for background information. Also be clear on what visits you’ll be making. Editors are more impressed with stories that result from actually visiting people and seeing projects first-hand as opposed to collecting information off the internet or from press releases.
- Tell your editor why you think the target audience will be interested in your piece.
- Tell your editor when to expect a first draft (setting yourself a reasonable deadline) and the anticipated number of words.

EXAMPLE: Here is a good story pitch:

Subject line: Story idea: Israeli-Palestinian scientific collaboration

Hello Mike,

I’d like to propose the following story idea for your publication:

While conflict remains rife in the Middle East, Israeli and Palestinian scientists have set up an organization that will support collaborative research between them. Although it has already been successful in funding 15 collaborative research products, the project is surrounded by much political controversy.

In order to cover this story, I will be speaking with both the Israeli and Palestinian directors of this organization in addition to Palestinian and Israeli researchers who have benefitted from its funding. I will also speak with several Palestinian researchers who have varying opinions about the project itself under the current political atmosphere.

If you are interested in the idea, I can send you the first draft of the article in 10 days time.
I would prefer to give it ample space, so I am looking at a 1500-word feature article, although I am open to your guidance on word length according to your own space limitations.

Thank you and looking forward to your feedback.

Best,

Regina

After you've sent your story pitch, you'll get one of three responses:

1. **Your editor is pleased with your story pitch and gives you the go-ahead.** Don't let him or her down! Send the first draft before deadline and stick to what you agreed to do.

2. **Your editor has some reservations and discusses them with you.** This is a good opportunity to develop your story idea further so that it's acceptable to both your editor and audience. As noted in Chapter 1, it's important to agree on the angle of any story.

3. **Your editor doesn't respond.** This could mean that your e-mail was lost in a sea of spam. It doesn't hurt to call your editor a few days after you've sent your pitch (or hours if it's a news story) to make sure he or she has seen it. It could also mean that your story idea just isn't interesting enough and your editor doesn't have time to turn you down. Take a second look. It might be worth sending the idea to another publication. Try to think of a better angle with which to grab attention.

**A good story pitch is your first step towards a good article.**
4.4 Introduction to different types of science writing

Science writing varies according to the editor, the audience, you, the publication, and the type of reporting required. It's a good idea to try different formats to find your niche and discover what you do best. If you work freelance, you can start targeting media organizations that are looking for this kind of writing. But be ready to diversify in order to gain a larger market.

Below are brief explanations of some different types of science writing, some of which will be addressed elsewhere in Chapter 4.

A. News story
News stories are written to cover something that happened just now or recently. They are usually, but not always, shorter than other types of stories. They are structured such that the "who, what, when, where, and how" of the story are written in the first sentence or two of the article. News stories usually have short paragraphs and sentences. Conferences, recent scientific discoveries, and infectious disease outbreaks are frequently the subject of news.

EXAMPLE: 'Find of century' for Egyptology
[ http://news.bbc.co.uk/2/hi/middle_east/6244516.stm ]

B. Feature article
Feature articles are usually written with more depth than a basic news story. A feature article can cover a news item (something that has just happened) but provides more information and covers more ground. Feature articles also cover stories that are ongoing or which have less urgency. They usually have an interesting introduction that grabs the reader's attention, followed by a 'nut graf' to focus the story, and then the main body of the piece containing background information. Finally, there may be a conclusion, a final climax or joke, or an unusual side story to draw the piece to an end.

EXAMPLE:
Greening Desert

C. The interview
Although we resort to interviews with experts, researchers, scientists, and people "on-the-street," a single interview can be the focus of an article. These articles are usually written in question-and-answer style, although they can also be written more imaginatively. The important point is that the reader's attention should be focused not only on the topic, but on the person and his or her views. Through these articles, we help our audiences better understand how a certain person thinks about one topic or a large variety of topics (see Lesson Three: The interview [ http://www.wfsj.org/course/en/L3/L3P00.html ]).

EXAMPLE:
Here's an interview written in Q&A format:
Shrek and the quest for perfecting 3D animation
[ http://www.islamonline.net/servlet/Satellite?c=Article_C&cid=1178724250713&pagemame=Zone-English-HealthScience%2FHSELayout ]

D. Editorial, analysis, commentary, or opinion piece
As SciDev.Net's director, David Dickson, writes:
The purpose of an editorial is to provide a point of view on an issue of topical interest. **An editorial may either be unsigned or signed.** If the editorial is unsigned, it is usually taken to represent the views of the publication or website in which it appears, as expressed either by the editor, or by a staff member (or occasionally a freelance contributor) writing with the editor's support.

If an editorial is signed, it does not represent the point of view of the publication or website. However it is generally accepted that the editorial has been given a prominent position because the editor (or editorial staff) feel that it is a point of view that deserves an audience.

An editorial should include both a clear conclusion on the topic being addressed, and a clear logical structure that sets out the facts and arguments on which this conclusion is based. It may also describe counterarguments, indicating briefly why the author disagrees with them.

**There are many ways to start an editorial.** One option is to identify immediately the issue to be addressed, and summarise why it has been selected. It may, for example, comment on a recent event or on a decision that a government is likely to announce.

Another opening is to provide interesting background – either social (such as describing the growing incidence of AIDS in a particular country) or historical (summarising a past event against which current developments are to be compared).

A third option is to start with the conclusion, stating in the first sentence what the author feels a certain government or international organisation should do on a particular topic.

The precise beginning will depend on the inclinations of the author, the overall impact that he or she is attempting to achieve, and the sub-editor's agreement that the selected opening is appropriate.

**The structure of the rest of the editorial can follow various patterns.** The author may decide to express his or her opinion early in the article, and then in the rest of the article provide arguments that justify this point of view (and, if there is room, dispose of the opposing arguments of others).

An alternative is to construct a logical argument with the conclusion appearing in the last couple of paragraphs. Above all, the best structure is the one that conveys the arguments most effectively.

The following points should be born in mind when writing editorials:

1. Ensure that you express your opinion clearly and succinctly.
2. Ensure that your arguments have a logical structure.
3. Avoid technical or obscure language.
4. Avoid the need to refer to other articles or web pages for the argument to be intelligible.
5. Avoid abusive language (and remember that there is a fine line between legitimate and potentially libellous comment!)

**EXAMPLE:**
See this editorial by David Dickson for SciDev.Net

**Africa must create its own biotechnology agenda**
[http://www.scidev.net/content/editorials/eng/africa-must-create-its-own-biotechnology-agenda.cfm]
E. Investigative report

Investigative reporting involves extensive and original research and investigation into a particular topic. It usually involves finding an answer to an important and often controversial question, such as: "Does the local water supply really explain reports of an increased incidence of a certain disease in the area?" or "Are researchers who claim to have cloned the first human telling the truth?"

Scientists, in this kind of report, may be the expert witnesses upon whose work the journalist relies in uncovering the truth, or they may be the focus of the investigation. And the science journalist may need to pit one scientist’s views against another in order to tell the story.

Investigative reporting usually takes more time because it is more difficult to find people who have the answers, or who are willing to be interviewed. It may be that there are no ready answers and the journalist has to work hard to find any. But the quality of the research will certainly influence the final piece (see also "Do the leg work" [ http://poynter.blogs.com/narrative/2003/12/do_the_leg_work.html ])

Investigative reports can result in a single article or in a series of in-depth articles and reports.

EXAMPLE: This is an investigative article published by Nature magazine about the trial of six medical workers in Libya accused of infecting children with HIV:

'A shocking lack of evidence'
[ http://www.nature.com/nature/journal/v443/n7114/full/443888a.html ]

F. Blogs

Blogs are the latest hype in journalistic writing. In most styles of writing, journalists are expected to distance themselves as individuals in order to report fairly, in a balanced and unbiased manner. Blogs, however, have provided journalists with an outlet for their innermost thoughts, experiences, and adventures.

With almost any story that a journalist covers, there is a story behind the story. For example, if a journalist goes to Iran to cover the nuclear energy issue, there will certainly be stories about how he initially came across the information. And if your editor limits you to a 500-word news story, you can write an extended version in your blog.

Blogs are normally presented on the websites of specific individuals. There are many free online programs that enable you to write a blog. Also, the newspaper or magazine you write for might have a special section on its website devoted to journalists' blogs. Speak with your editor if you have a story-behind-the-story to share.

EXAMPLE:
Take a look at these blog entries from Pulitzer Prize-winning science writer Deborah Blum:
[ http://www.huffingtonpost.com/deborah-blum ]

The more varied forms of science writing you do the larger your potential market. But make sure you continue developing your own unique style.
4.5 Basics of science writing in any style

A. Bring the science down to earth
Everything you've read up to this point in Lesson Four applies to almost any topic. But there are some specific skills you need to make writing about science more accessible and interesting to your readers.

To some people, scientists in their laboratories seem like aliens in their distant and far-off lands. In some cases, this analogy might actually be true! The job of the journalist is to bring the scientist back down to earth, even though he or she might sometimes be reluctant.

Bring out the human in the scientist. Highlight aspects of his or her personality that everyone can relate to – a hobby, a certain thing he or she does when going into deep thought before answering a question. What does he or she wear in the lab? What kind of a laugh does he or she have? How does he or she relate to colleagues at work? Do his or her eyes light up when talking about research?

When writing about the science, explain how it relates to your readers' everyday lives. Ask the researcher during your interview why creating nanotubes from DNA molecules could be revolutionary for computer technologies. Or explain to your readers how stem cell research has the potential to discover cures for disease. Try the narrative technique of introducing your story by writing about someone afflicted with a disease and explain how stem cell research could change this condition.

EXAMPLE 1:
Take a look at this excerpt from an article in Australia's COSMOS magazine [September 2005, page 34]. The article addresses a research study published in the New England Journal of Medicine, but in a very down-to-earth way:

He wasn't an addict. The drug was codeine, not cocaine. The dose was small, and administered by a physician. And yet the patient overdosed and nearly died. The culprit? His genes.

Codeine delivers its pain-killing punch because the body converts it into morphine. Most people have just one copy of the gene that performs this reaction. This patient had three. His body processed codeine into morphine with supersonic speed. At the height of intoxication, 800 times the expected level of morphine saturated his brain.

This codeine overdoes was unusual enough to make the New England Journal of Medicine, but the problem it reflects is anything but rare. Every year in the U.S., which has a population of about 295 million, adverse drug reactions (ADRs) claim an estimated 100,000 lives and account for more than 2.2 million cases of serious illness.

Until recently, however, doctors could do little to prevent ADRs. They had neither the knowledge nor the technology to decipher the genetic differences that turn one person's cure into another's poison. That is now changing. The human genome map and new tools for analyzing an individual's DNA have swiftly given rise to 'pharmacogenomics' - using genetic information to predict drug response.

EXAMPLE 2:
Here is an excerpt from Seed magazine, published in the U.S. [Feb/March 2006, page 58]:

[Text continues from page 58]
Professor Elizabeth Gould has a picture of a marmoset on her computer screen. Marmosets are a new world monkey, and Gould has a large colony living just down the hall. Although her primate population is barely three years old, Gould is clearly smitten, showing off these photographs like a proud parent.

Find a way to help your reader personally relate to the subject matter of your article.
4.5 Basics of science writing in any style (continued)

B. Simplify the science Science can be a challenging topic to write about. Scientists spend years studying and researching their fields of science and you are expected to translate those years into 1000 words that anyone can understand!

Part of the answer to better writing is insisting during interviews that the scientists simplify the science for you (see Lesson Three: The interview). If you don't understand something, say so. Never write about something you only half understand. Research your topic well or get someone to explain it to you in simple terms. Provide enough background information and simplify complicated scientific jargon so anyone can understand and enjoy your article.

• Use of analogies and metaphors

On metaphors, science journalist Jan Lublinski writes:

Metaphors are an important part of science writing because they create strong images from everyday life and cultural references which make science easier to understand: the atmosphere is a greenhouse, the brain of a chess player a computer; a black hole is a monster that eats its victims, while stars send out their "last cry" in the form of X-ray emissions. In general, metaphors provoke associations between different parts of our thought processes – a short circuit in our thinking (short circuit is, again, a metaphor!).

The central metaphor of a story can also be used to frame it. For example if you call Ian Wilmut the creator of Dolly the cloned sheep, you can describe his cloning-research as a god-like metaphysical act, which gives the story both critical and political angles. The same is true if you describe physicists who build a big particle accelerator in the quest for a "theory of everything" as true believers who have built a cathedral.

Metaphors – as well as comparisons or similes (their weaker counterparts) – can be used to explain things in science writing. To clarify what it means to say that the universe is expanding, it helps to say that the stars drift apart like raisins in yeast dough. The immune system is like an army defending its home country; scientists work like detectives to solve a problem.

But the last two examples already show that some metaphors have been over-used and are not always a good choice. Very often metaphors and comparisons in science writing are used wrongly. The images are not well chosen, describe only one part of a subject matter and may lead the audience on the wrong path. Some metaphors only make sense to those who understood the issue already, such as calling the genetic code the book of life.

Metaphors are powerful tools that should be used with care. And very often it is better not to use them and just describe or explain things in another way.

EXAMPLE:
Here is a story with a metaphor in its headline that also frames the story.

India hops on board the 'jatropha express'
[ http://www.scidev.net/content/features/eng/india-hops-on-board-the-jatropha-express.cfm ]

If you click on the link to the original "Nature" article you will see that the train-
• **Dealing with numbers**

How many soccer fields are there in 6000 square meters?

How many atoms fit on the head of a pin?

When dealing with numbers, whether you're describing weight, area, size, volume, length or whatever, it's usually a good idea to make them easier for readers to relate to by making comparisons with things that we see or use in our every-day lives. Help your audience "visualize" the number rather than leave the number at face value.

But take care to limit the number of numbers in an article to just the most important ones – so as not to alienate your readers. And be sure to explain any terms associated with numbers, such as gross domestic product (GDP). And finally, don't be afraid to use the word "approximately" and simple rounded-up or rounded-down whole numbers rather than fractions.

**EXAMPLE:**
See how this BBC article [http://news.bbc.co.uk/1/hi/sci/tech/4085214.stm](http://news.bbc.co.uk/1/hi/sci/tech/4085214.stm) compares 30 billionths of a metre in diameter to one thousand times finer than a human hair. Now that brings this phenomenally small diameter closer to home!

*The world's smallest brushes, with bristles more than a thousand times finer than a human hair, have been created by researchers in the US.*

*The brushes can be used for sweeping up nano-dust, painting microstructures and even cleaning up pollutants in water.*

*The bristles' secret is carbon nanotubes, tiny straw-like molecules just 30 billionths of a metre across.*

See also this article "Planning and writing a science story" by Jan Lublinski [http://www.scidev.net/en/practical-guides/planning-and-writing-a-science-story.html](http://www.scidev.net/en/practical-guides/planning-and-writing-a-science-story.html)

• **Dealing with jargon**

Never assume that your readers will understand every scientific term or concept in your writing. Make sure you explain the meanings of terms but beware of oversimplifying – a trap that journalists sometimes fall into.

**EXAMPLE:**
Here's an excerpt from an IslamOnline.net article [http://www.islamonline.net/servlet/Satellite?c=Article_C&cid=1157962445284&pagename=Zone-English-HealthScience%2FHSELayout](http://www.islamonline.net/servlet/Satellite?c=Article_C&cid=1157962445284&pagename=Zone-English-HealthScience%2FHSELayout) that explains two terms (estuarine ecosystems and sinkholes) using two different methods: an exact definition and an explanation of the process itself:

*The rapidly dropping sea level has been accompanied by a drop in the water table along the coasts. This has resulted in a multitude of problems. Springs and their associated habitats are drying up, threatening the rare species that inhabit the Dead Sea basin. Estuarine ecosystems (where the freshwater from springs meets the*
saline waters of the Dead Sea) are also disappearing. And, as the groundwater levels drop, salts are dissolved from the soil, leaving it porous and unstable. As a result, sinkholes have developed with the land becoming prone to caving in on itself, sometimes forming craters as large as 15 meters in diameter. Immense damage has consequently been done to agricultural lands and to infrastructure, such as roads and bridges, and human safety in the region is in constant jeopardy.

**Take time to be creative in simplifying complex scientific concepts. Your audience will appreciate it.**
4.6 Basics of news writing

A. What is newsworthy?
Before writing your news story, it's worth considering what is likely to be the most newsworthy angle for your audience, and therefore what you should highlight in your piece. There are a variety of factors that help to determine whether an event is newsworthy or not:

- If there is conflict: not just armed conflicts between nations, but debates about stem cell research or evolutionism versus creationism/intelligent design can be considered conflicts.
- If there is an unusual occurrence such as a natural disaster.
- Prominence of a person, institution, or place that is well known to the audience.
- Proximity: the closer a story is to us the more important it is.
- Self-interest: when there is direct relevance to the audience.
- Human interest: when the story touches our emotions and feelings.
- Timeliness (something that has just happened or begun to happen).
- Change.
- Impact on our lives: for example medical research that can lead to treating illness.
- Violence.
- Drama.

See Lesson One of this online course, "Planning and structuring your work" [http://www.wfsj.org/course/en/L1/L1P00.html], and Lesson Two, "Finding and judging science stories." [http://www.wfsj.org/course/en/L2/L2P00.html]

B. Information for news stories
A good news story requires the following types of information:

- Details: who, what, when, where, why, and how.
- Background: put the story into context, but stick to the facts and be very careful not to state your own opinion.
- Colour: always keep your senses open while gathering information for your story. Describing smells, sounds, scenes, and even textures are all colourful ways to bring your story closer to your reader.
- Anecdotes: try to find a story or a scene in what you are covering to help make your news story livelier.
- Quotes: quotes are tricky to use. Don’t use quotes that are dispensable. If a quote contains mainly factual information that can be paraphrased then paraphrase it. Only use the "golden quotes" that would be a sin to paraphrase – such as those in which people are describing their own feelings or reaction to a situation.

C. Sources for news stories
While writing your news story, always use at least two different types of sources, preferably more (See Lesson One [http://www.wfsj.org/course/en/L1/L1P00.html]).

Sources can be material sources such as polls, documents, government archives, journals, press releases, other media stories; or they can be human sources such as officials, experts, people involved, people affected, people who can remember an event, and the man-on-the-street.
EXAMPLE:
Read this article on the Australian Broadcasting Corporation's science section.

India's hidden greenhouse gas source?

Note how the writer refers to a study, the lead author of the study, an institution, activists and government sources.

D. Types of news stories

1. **Advance story**: This is a story that announces a forthcoming event, such as a conference. It usually follows the inverted pyramid structure, with the most important and interesting information at the top, followed by supporting information of diminishing importance. The structure of the advance news story is usually as follows:
   a. **Lead**: Start the news story with answers to the three main questions of what, when and where. Remember, you are announcing something to come, so cut to the chase and announce it. The lead is usually made up of one or two sentences that should be no longer than 25 to 35 words each.
   b. **Second paragraph**: Provide more details on what is happening, the people involved (such as the organizers), who will be attending, and what important topics will be discussed.
   c. **Third paragraph**: Provide further information and background on the topics or the people involved, depending on which is more important.

   The advance news story is usually about four paragraphs long, with each sentence no longer than 10 to 15 words. **EXAMPLE:**
   Take a look at this advance story.

   **Kuwait hosts 8th science in Qur'an conference**
   [ http://www.islamonline.net/servlet/Satellite?c=Article_C&cid=1160574245493&pname=Zone-English-HealthScience%2FHSELayout ]

2. **Spot news**: this is a story that reports on something that has just happened. This is also written in inverted pyramid style with the most important information at the top, followed by less important information. Start with a lead that addresses the questions of what, when, where, why, and how. Follow your lead with relevant details. Then continue, in your third paragraph, with quotes and background information. Always remember to use colour in your news writing.

   **EXAMPLE:**
   Here’s an example of spot news from New Scientist.

   **Satellite snaps first images of mysterious glowing clouds**

3. **"People talking" news story**: An example of a "people talking" news story is one that covers a press conference or public lecture.
   a. **Lead**: In your lead, summarize the most important statement made at the event by paraphrase.
   b. **Second paragraph**: Quote the speaker directly and explain where and why they made the statement.
c. **Third paragraph:** Provide background information.

d. **Fourth paragraph:** Paraphrase the second most important point that was addressed.

e. **Fifth paragraph:** Provide a direct quote as illustration.

f. **Sixth paragraph:** Provide more background.

**EXAMPLE:**
Read this story from Reuters.

**China’s development is costing the Himalayas: activist**

4. **Follow-up news story:** These stories follow up on an event that is ongoing and still holds the audience’s interest. This can be a follow-up of a spot news or "people talking" story. Readers drawn to this story may already be familiar with the story and want more information, or may be learning about it for the first time.

**EXAMPLE:**
This story was posted on the BBC following a heat wave in southern Europe that had received much news coverage:

**Heatwaves will 'boost death rate'**
[http://news.bbc.co.uk/2/hi/health/6245370.stm](http://news.bbc.co.uk/2/hi/health/6245370.stm)

While writing news, make sure to:

- Be **objective**: Don't insert your own personal opinion into the story
- Be **balanced**: Show as many sides to your story as possible. It's important to realize that balance does not mean two sides of a story. Most stories have many sides. And being balanced does not mean giving the same amount of weight to each side. For example, if most scientists believe in the science of climate change whereas only two scientists don't, you should indicate the greater weighting that the former has in the scientific community.
- **Attribute** your sources: Always tell your readers where your information comes from, so long as you are not putting your sources in danger.

**With enough creative energy you can turn almost anything into news. Remember: your sources are the experts, not you. Although you may only be quoting two or three people, you should speak with many more in order to determine the relative weight of each person’s point of view.**
4.7 Basics of feature writing

A. Getting started: The "nut graf"
Like news writing, feature stories should be newsworthy. The main differences between a "hard" news story and a feature story (note that news stories can be written as news features) is that news stories are to-the-point, less detailed or colourful, and hence usually far shorter than features. Features tend to have more depth and background information, and employ a larger variety of writing styles. News stories generally have to be written quickly, for publication today so as to be newsworthy, while feature stories can wait for days or even weeks.

The hardest part of writing a feature story is putting the first few words to paper. The critical task is first to figure out the most important message you wish to convey. This focuses your story idea to a particular angle. A single article cannot cover every angle. If you have many angles from which to choose, cover them in more than one article. This enlarges your market for publication. You may be a freelance or a staff journalist interested in writing for more than one section of your publication. By re-working the angle of the story, you can publish more than one article based on the same research. (See also the section in Lesson One about "Working with the research sentence" [http://www.wfsj.org/course/en/L1/L1P09.html])

One of the best ways to learn how to focus your story idea is by learning how to write a "nut graf." This is a term coined in U.S. newsrooms to describe a paragraph that is usually placed as the third or fourth paragraph of your article to summarise what your story is about. (For a fuller description, visit this link [http://www.poynter.org/column.asp?id=52&aid=34457])

Start writing your article by writing your 'nut graf'.

EXAMPLE:
The River Nile has been Egypt's 'vein of life' since time immemorial. Now facing a variety of threats ranging from Bilharziasis to the dumping of raw sewage, industrial, and agricultural effluents, the longest river in the world has slowly been turned into a death sentence for Egypt's millions.

A blend of public awareness and a strong commitment towards living a better life have, however, formed a successful recipe that pays homage to the waters that have been the country's symbol of prosperity and abundance since the times of the Pharaohs. (Source: [http://www.islamonline.net/English/Science/2004/05/article09.shtml])

By reading these two paragraphs – the article's nut graf – the reader can immediately grasp what the article is all about: the pollution of the River Nile, how it affects the health of Egyptians, and efforts underway to fix the problem. The writer has thus focused her story idea and has essentially limited herself to this particular angle for the rest of the story.

B. Leading into the nut graf
Once you have written the nut graf, you must consider how to lead into it with a good introduction that grabs the reader's attention. There are several types of introductions you can use:

- **Summary**: Sum up the **who, what, when, where, why** and **how** of the story, similar to a typical news lead.
- **Anecdotes**: Tell a short compelling story that people can relate to.
EXAMPLE:
Taking again the story about the River Nile [http://www.islamonline.net/English/Science/2004/05/article09.shtml], look at its first two paragraphs and see how an anecdote is used:

As Egypt succumbs to summer and the temperatures slowly rise to a searing 40 degrees Celsius, four young boys skinny-dip in a canal while their fathers and older brothers labor in the nearby fields. With a carefree spirit that only boys their age can feel, they playfully splash each other with the refreshingly cool water.

Less than 100 meters upstream, however, a crime is being committed that will have a direct impact on these boys for the rest of their lives. A truck carrying raw sewage collected for a minor fee from the local villagers is dumping its contents directly into the irrigation canal.

• Descriptive: provide a description of the person you are, or of something that happened in the event you are covering.
• Question: If your article is investigating an issue that will be completely answered by the end of the article, you can begin with a question.

EXAMPLE:
This article on IslamOnline.net starts with a series of questions that many Internet users probably answered with a definitive "yes"!

Keeping Cool May Cause Data Loss [http://www.islamonline.net/English/Science/2005/09/article04.shtml]

• Pun or truism: Play with words or think of a pun or a truism that can be applied to the core of your topic.
• Quote: This type of lead should be used with caution. If during your research you came across an important quote that can pull the reader into your story, use it. Otherwise, it's better to use a different kind of lead.

C. The body of the feature article
While writing the body of your article remember to:

• Never lose sight of the main idea you summarized in your nut graf.
• Use multiple sources and from multiple categories. Do not, for example, quote scientists without also quoting officials or people affected by the science.
• Avoid implying positions of "black versus white" or "evil versus good" in your writing. As in news, there is more than one side to every story. Provide balance not through creating two extreme opposites but by portraying different sides to a story and giving each the appropriate weight. Always attribute your sources.
• Provide enough background that anybody can follow your topic.
• Provide colour in your writing. Be descriptive of your main characters and important scenes in your story.

D. Wrapping up your article
Any good feature article needs a good ending. The reader should be able to find a logical connection between your ending and your nut graf.

Endings can be written as a straightforward message, as a question or proverb that summarizes the main message of the article, as an anecdote that brings the reader back to the human side of the story, or as a comment that leads into future prospects for your
subject matter. What's most important is that you don't want to leave your reader hanging, nor do you want to leave him feeling that it was a poor end to a good article. Aim at writing an ending that is thought provoking, or that leaves your reader with a sense of satisfaction.

E. Before you send your article to the editor:

- Read your story out loud to yourself. Does it read well?
- Although this is normally the job of the editor, try to divide your article with subtitles. This helps you to check to see if your ideas are logically structured into groups. If you find dividing the article into subtitles difficult, it might be because your ideas lack a logical progression.
- If you have time before your deadline, leave the article for a day or two and then go back and read it again. You might find glitches that you overlooked on writing that first draft.
- Show your article to a family member, friend, or colleague that you trust to provide constructive criticism. Are there concepts or terminologies that they find difficult to understand? Is the article boring? Does the article need "tightening" by removing superfluous information and words?

Stay focused in your writing from beginning to end.
4.8 Narrative writing: Tell your readers a story

There's nothing like a good narrative to turn the most boring of topics into a compelling read. One of my most memorable reads was a National Geographic story of a certain type of insect that had been found on just one secluded island and was believed to be extinct until it was discovered years later in small numbers on another distant island. Since the insect could neither swim nor fly, its appearance so far away was a mystery. Researchers worked to solve the riddle and came up with a theory. This story about research on a supposedly extinct insect could make for a very boring read. I mean, who cares about insects gone extinct? But the author had turned the story into the adventurous journey of a small bug, struggling to survive against all odds. Who could resist that?

Narrative writing is a style that can be used for both news and features. It is a form of storytelling that involves the development of characters and a story line. It is compelling because it satisfies the questions "What happens next?" or "How did that happen?" or "What is learned or understood next?" (see [http://www.poynter.org/content/content_view.asp?id=117320](http://www.poynter.org/content/content_view.asp?id=117320)). Think of how our elders used to communicate information to us – especially to teach us a lesson – or how our ancestors preserved human history.

An example is telling the story of a research study through the researchers themselves. Develop their characters. Demonstrate how various aspects of their personalities led them to their research idea or finding, or how a casual argument led to a realisation of a better methodology. The key to finding the right nuggets of the story is most likely to come from your interviews with researchers (see Lesson Three: The interview).

Another example is telling the same story through people who might be affected by the research. In other words, highlight the human element of your story. Your characters could just as well be objects, such as atoms, or animals, or insects. Your goal is to weave these characters into your story in a way that grabs the attention of your audience as if they were reading a story or listening to their grandfather by the campfire.

EXAMPLE:
Read the following excerpt from a National Geographic magazine article to get a sense of what narrative science writing is about:

So what, really, is this thing called love?

It's worth remembering that the narrative approach does not necessarily require long pieces. Short, succinct stories about individual scientists could also be very engaging (see also "Short and sweet: storytelling in 300 words" [http://www.poynter.org/content/content_view.asp?id=99998](http://www.poynter.org/content/content_view.asp?id=99998)).

In narrative writing for feature articles, you'll want to employ all the tools of narrative writing for novels or even good movies – so one way to enhance your narrative writing skills is to read plenty of books, watch movies, and think about what the good storytelling elements were.
Lure your reader into reading your article with a gripping introduction. Keep your reader in suspense while at the same time doling out intriguing clues here and there. Develop your characters well and give the reader time to relate to their idiosyncrasies. Communicate the science through the characters themselves. Bring your narrative to a climax and then keep your readers hooked to the very last word.

Science writing does not have to be boring.
4.9 Writing for the internet

Although the basic format of a news or feature story is similar for either print or the internet, there are some particular considerations when writing for the Internet:

- Internet readers *surf* and *scan* rather than read. As we’re all aware, reading long text from a computer screen is tiring for the eyes. Most people leave long text articles for when they are reclining in a chair or sipping tea at the breakfast table. So although the internet does have the advantage of limitless space, people will only read your article if you keep it short and sweet.
- Structure your article so that a reader can get your main gist simply by scanning through the paragraphs while scrolling. Group ideas together and provide clear and indicative subtitles.
- Break up your article with small side-bars containing quotes or ideas from your article.
- Keep sentences and paragraphs shorter than they normally would be for print publications.

If you want to boost your status in the freelance market, it's a good idea to provide your editor with additional material.

Is there a complex scientific procedure that can be explained using *graphics*? It would be great if you could design your own graphics, but if the web team includes a graphic designer then you could suggest captions and a description and useful images for guiding the creation of an explanatory graphic. Alternatively you may find images that are freely available from elsewhere that the website could download and use. A picture file with accompanying captions or even some audio and video will really dress up your article.

You can also *hyperlink* terms or names to other websites that provide additional information, or list resources at the end of your article to which readers can refer. Most websites won’t pay for the extra work, but the editor will certainly appreciate your efforts and may keep you on his or her priority list of writers. Your readers will benefit too.

**When writing for the internet, spice up your writing with hyperlinks, additional resources, and graphics. Write for scanners, not intense readers.**
4.10 Self-teaching questions (1-5)

QUESTION 1:
Below are the first few paragraphs of three articles. Decide whether each one of them is a news story, a feature story, a narrative, an investigative report, an interview, an editorial, a blog, or a combination of more than one type of science writing:

c. Article 3 [http://www.wfsj.org/course/en/L4/L4Stq-Article03.html]

QUESTION 2:
Find creative ways to rewrite some of the terms in the following sentences. For your convenience, terms that might be difficult for the general public have been highlighted in bold:

a. "Steve Linscombe still isn't quite sure how it happened. The director of the Louisiana State University AgCenter for Rice Research knows that he grew a few lines of transgenic rice in field trials between 2001 and 2003. He also knows that one of those lines, LLRICE601, was grown on less than one acre. What he is not clear on is how the line then wended its way into the food supply. That little mystery is now the subject of an official investigation and a class-action lawsuit."
b. "There are drugs to treat this early chronic stage, but the parasite also causes a process similar to autoimmunity against which the drugs are not effective."
c. The development of drug resistance in the parasite that causes river blindness could lead to outbreaks in communities where it has been under control, according to research published last week (16 June) in The Lancet.
d. Materials scientists from Oxford and Nottingham universities performed chemical reactions inside nanotubes.

QUESTION 3:
Read the following sentences and think of ways to bring the numbers closer to home for your readers:

a. Patients who inhaled radioactive ultrafine carbon particles displayed traces of it in their bloodstream not long afterwards. These very small pieces of matter are called nanoparticles, defined as anything smaller than 100 nanometres in size.
b. Chajnantor has been chosen as the site for the Atacama Large Millimeter Array (Alma), a major telescope array that aims to illuminate one half of the Universe that has hitherto been shrouded in darkness. It lies at an altitude of 5,300 metres.
c. An ongoing survey of the heavens has spotted the most distant, and therefore earliest, giant black hole in the universe. The object, a quasar given the catchy name CFHQS J2329-0301, was found with three other extremely distant quasars in the Canada-France High-z Quasar Survey. CFHQS J2329-0301 is about 13 billion light-years away, say the scientists.

QUESTION 4:
With each of the following three news stories, determine what type of news story each is, list which elements of newsworthiness they have, and what categories of news sources were used.
<table>
<thead>
<tr>
<th>News story</th>
<th>Type of news story</th>
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<tr>
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<tr>
<td>Apple's iPhone makes it to stores</td>
<td></td>
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</tr>
</tbody>
</table>

**QUESTION 5:**
What kinds of leads were used in the following three articles?

<table>
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<td></td>
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<tr>
<td>Sorting out the junk: Email in a data-congested world</td>
<td></td>
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4.11 Answers to Self-teaching questions

QUESTION 1:
Below are the first few paragraphs of three articles. Decide whether each one of them is a news story, a feature story, a narrative, an investigative report, an interview, an editorial, a blog, or a combination of more than one type of science writing:

c. Article 3 [http://www.wfsj.org/course/en/L4/L4Stq-Article03.html]

Answers:

b. Editorial.
c. Feature.

QUESTION 2:
Find creative ways to rewrite some of the terms in the following sentences. For your convenience, terms that might be difficult for the general public have been highlighted in bold:

a. "Steve Linscombe still isn't quite sure how it happened. The director of the Louisiana State University AgCenter for Rice Research knows that he grew a few lines of transgenic rice in field trials between 2001 and 2003. He also knows that one of those lines, LLRICE601, was grown on less than one acre. What he is not clear on is how the line then wended its way into the food supply. That little mystery is now the subject of an official investigation and a class-action lawsuit."

b. "There are drugs to treat this early chronic stage, but the parasite also causes a process similar to autoimmunity against which the drugs are not effective."

c. The development of drug resistance in the parasite that causes river blindness could lead to outbreaks in communities where it has been under control, according to research published last week (16 June) in The Lancet.

d. Materials scientists from Oxford and Nottingham universities performed chemical reactions inside nanotubes.

Answers:
The following answers may be worded a little differently from your own:

a. Transgenic plants posses one or more genes that have been transferred to them in the laboratory from other species with the aim at producing plants with special characteristics.

b. Autoimmunity is a condition where antibodies produced by the patient's own immune system against the parasite begin to attack the body's own tissues.

c. River blindness (onchocerciasis) is caused by a parasitic worm, Onchocerca volvulus, and is transmitted by black flies breeding along fast-flowing streams. It causes blindness and skin disease in sub-Saharan Africa and some tropical regions of the Americas. Around 37 million people worldwide may be infected.

d. Nanotubes are tiny tubes of carbon atoms that are essentially sheets of graphite an atom thick and that are folded back on themselves to form cylinders.
**QUESTION 3:**
Read the following sentences and think of ways to bring the numbers closer to home for your readers:

a. Patients who inhaled radioactive ultrafine carbon particles displayed traces of it in their bloodstream not long afterwards. These very small pieces of matter are called nanoparticles, defined as anything smaller than 100 nanometres in size.

b. Chajnantor has been chosen as the site for the Atacama Large Millimeter Array (Alma), a major telescope array that aims to illuminate one half of the Universe that has hitherto been shrouded in darkness. It lies at an altitude of 5,300 metres.

c. An ongoing survey of the heavens has spotted the most distant, and therefore earliest, giant black hole in the universe. The object, a quasar given the catchy name CFHQS J2329-0301, was found with three other extremely distant quasars in the Canada-France High-z Quasar Survey. CFHQS J2329-0301 is about 13 billion light-years away, say the scientists.

**Answers:**
A number of answers are possible including the following:

a. A nanometre is one-billionth of a metre, 80,000 times smaller than a human hair.
b. The location of the telescope is at about half the cruising altitude of a 747.
c. The light from the quasar has traveled 13 billion years to reach Earth.

**QUESTION 4:**
With each of the following three news stories, determine what type of news story each is, list which elements of newsworthiness they have, and what categories of news sources were used.

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<td>Journal Researcher 2 government officials</td>
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<td>People talking</td>
<td>Prominence (of conference) Timeliness Self-interest (for science journalists)</td>
<td>Experts only</td>
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**QUESTION 5:**
What kinds of leads were used in the following three articles?
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<td>Question lead</td>
</tr>
</tbody>
</table>
4.12 Assignments (1-5)

ASSIGNMENT 1:
Take a look at some of the following English-language science publications and discuss with your mentor how their audiences might vary and as a result how your own writing might vary for each of them:

b. Nature [ http://www.nature.com ]
g. SciDev.Net [ www.scidev.net ]
i. Science in Africa [ http://www.sciencelinafrica.co.za/ ]
k. ABC Science [ http://www.abc.net.au/science/ ]

ASSIGNMENT 2:
Take a look at the following articles. What do you think their story pitches were like? Practice writing a story pitch for each of the following articles and discuss them with your mentor:

c. Beauty with a purpose [ http://www.islamonline.net/English/Science/2004/05/article05.shtml ]
d. Autism symptoms reversed in lab [ http://news.bbc.co.uk/2/hi/health/6245742.stm ]

ASSIGNMENT 3: Take one of your more exciting articles, write a 1000-word blog related to the topic and share it with your mentor. Is it written well enough that it deserves publication?

Experiment with setting up your own blog at [ www.blogger.com ], [ http://wordpress.com/ ], [ http://int.blog.com/ ], or countless other websites that provide this free service. Encourage friends and colleagues to post their own comments to your blog posts.

ASSIGNMENT 4:
Take your latest news story and practice writing it as a feature story or vice versa. Discuss with your mentor.

Attend a conference session or a press conference in your city on some science- or health-related issue. Practice writing one advance news story and one people-talking news story about the event you attended. Share with your mentor.

Visit the university or scientific institution nearest to you. Find an interesting research study that was just published by one of its researchers and write about it in spot news format,
then write about it as a feature story. Remember to do enough background research and interviews to manage both!

**ASSIGNMENT 5:**
Before you start writing your next feature article, write its nut graf and discuss it with your mentor. Is your idea focused enough? Is the nut graf compelling enough?