

Semestre : 2

UE : Transversale

Matière : Langues étrangères 2

Objectifs de l'enseignement

Amélioration de l'acquisition de la langue et des capacités aux techniques de rédaction scientifique.

Connaissances préalables recommandées

Il est recommandé d'avoir un bon niveau en Anglais/ Français

Contenu de la matière :

Pour l'Anglais 2

1. Grammar
2. Translation English-French
and French-English
3. Scientific articles
4. Scientific reviews

Pour Français 2

1. Initiation à la rédaction scientifique
2. Auteurs francophones
3. Ouvrages illustrés
4. Article scientifique en français
5. Ouvrage scientifique en français

Mode d'évaluation : Examen : 100%

Références (*Livres et polycopiés, sites internet, etc*) :

Août 2014

ADJECTIVES OF QUANTITY

Countable nouns: a noun that can be used in the plural and with such words as many and few:

e.g. there are two oranges in the basket.

Many children love football. Only a few love rugby.

Uncountable nouns: a noun that can not be made plural or preceded by a or an: water - sugar - cheese.

Some and **any** mean a certain quantity and are used before plural or uncountable nouns:

e.g. There are some oranges.

There isn't any butter.

Some is used in affirmative sentences:

I'd like some butter, please.

I want some cheese.

She eats some dates in the morning.

Any is used in negative sentences:

I don't want any mayonnaise.

She doesn't need any carrots.

And after interrogatives:

Do you need any tomatoes?

When the question is really an invitation or a request, **some** is used:

Would you like some tea?

Will you have some coffee?

There are two types of articles:

- indefinite, «*a*» and «*an*»: *a* car, *a* house, *an* article. (1)
- definite, «*the*»: *the* car, *the* kids, *the* teacher's book. (2)

Rules:

«*A*» and «*an*» are used before nouns that introduce something or someone you have not mentioned before:

I saw *an* elephant this morning; I ate *a* banana for lunch. (3)

«*A*» and «*an*» are also used when talking about your profession:

I am *an* English teacher; I am *a* salesman. (4)

You use «*the*» when you are aware that the listener knows or can work out what particular person/thing you are talking about:

The apple I've eaten is rotten; Did you lock *the* car? (5)

✓ You should also use «*the*» when you have already mentioned the thing you are talking about:

She's got two children; a girl and a boy. *The* girl's eight and *the* boy's fourteen. (6)



Important note!

* We usually use no article before abstract nouns: friendship, love, etc.

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✓ - abstract nouns: friendship, love, etc.

- uncountable words when we talk about them in general:

People are worried about global warming (7);

coffee is bad for you. (8)

- plural indefinite nouns: love poems are the best medium to express love. (9)

English Course
Lesson Four (part 1)

Mots de Liaison

N°	English/Français
1	According to , selon, d'après According to the radio it is going to snow.
2	Actually , in fact, en fait . She says she is 16, but actually she is 14.
3	All the same , tout de même, quand même Thanks all the same.
4	Anyway , en tout cas, de toute façon I will phone or I will write. Anyway, I will contact you.
5	As a result , consequently, aussi, par conséquent He did not revise for the exam, as a result/consequently, he failed.
6	As a rule , generally speaking, en règle générale As a rule/generally speaking, artists dislike criticism.
7	As for , quant à I will talk to ahmed, and as for the others, I will see them tomorrow.
8	As regards , en ce qui concerne As regards the budget, we are having a meeting next week.
9	At least , au moins, du moins Amal is leaving next week, at least that is what her friend told me.
10	Besides , d'ailleurs = <i>en plus</i> I do not want to go shopping, besides, I am tired.
11	By the way , au fait By the way, Ahmed has got a new job.
12	Firstly, secondly , en premier lieu, puis, ... Firstly, I shall explain the origins of the problem, secondly, ...
13	For , car He was shocked, for he has never seen such a thing.
14	However , cependant Our room was over the street, however, we were too tired to be troubled.
15	I think , je pense, je trouve, d'après moi I think, his latest film was a disaster.
16	In a way , d'un côté In a way, I agree with you.
17	In addition , de plus This is a risky project, in addition, it is extremely expensive.
18	In conclusion , pour conclure And in conclusion, I should like to thank all those who ...
19	In my opinion , à mon avis In my opinion, there is only one solution.

	In my opinion, there is only one solution.
20	In other words , autrement dit
	I cannot help you, in other words, you will have to do it yourself.
21	In short, in a word, bref
	He composes, he plays six instruments, he sings; he conducts. In short, he is a musical genius.
22	Let me see, let me think, attendez (que je réfléchisse)
	When can we do it? "Let me see - what about tomorrow?
23	Mind you, remarque / Remarquez
	He does not do much work. Mind you, he gets good results.
24	Moreover, de plus = in addition
	She found the weather depressing, moreover, her health was not good.
25	On the contrary, au contraire
	This is not an exclusive school,. On the contrary, anyone can join.
26	On the other hand, d'une part
	On the other hand, we have a lot of preparations to make, ...
27	On the whole, dans l'ensemble
	On the whole, I am satisfied with my job.
28	Otherwise, sinon
	We would better start now, otherwise we shall be late.
29	Still, toutefois, encore
	It was not a very good hotel. Still, it was better than nothing.
30	That is to say (F), c'est-à-dire
	For us, that is to say my colleagues and myself, the problem is simple.
31	Therefore (F), par conséquent
	Ahmed, the English teacher, is too busy, the next lesson will therefore be given by Rabah
32	Thus, ainsi
	Thus, we are forced to conclude that
33	to sum up (F) = en résumé = to summarize = à la fin
	to sum up : I feel that there are convincing arguments on both sides
34	Yet ~ mais
	He was far from strong, and yet people were afraid of him

PLURALS.

To form the plural of a noun. Add s:

A cat → cats

a boy → boys

a book → books

When you find a noun ending in (o, ss, ch, x) add es:

Potato → potatoes / glass → glasses / watch → watches / fox → foxes

Be careful: piano → pianos

photo → photos

Compare:

Day → days

baby → babies

Notice the letter preceding the(y):

a vowel: add s → Day → days

a consonant: drop the y and add ies → baby → babies

Notice: f → ves

Wife → wives

Knife → knives

Calf → calves

watch out: handkerchief → handkerchiefs

Some nouns form their plural by a vowel change:

Man → men

mouse → mice

Woman → women

louse → lice

Foot → feet

tooth → teeth

Animals! Some names of animals do not change in the plural:

Sheep; deer; salmon; trout; fish; grouse; ...

e.g. one sheep → two sheep

Numbers! (hundred / thousand / million) no s in the plural:

One hundred men → two hundred men.

One thousand photos → two thousand photos.

One million books → two million books.

Put the words below into plural form

✓ - School	=	✓ - other	=
✓ - Baby	=	✓ - watch	=
✓ - Teacher	=	✓ - House	=
- Lady	=	✓ - brush	=
- Tree	=	✓ - leaf	=
✓ - Car	=	✓ - Box	=
✓ - Ring	=	- Wife	=
- cheer	=	- cloth	=
✓ - Mother	=	✓ - Glass	=
- Picture	=	✓ - Door	=
- Fox	=	- country	=
✓ - Boy	=	- Tomato	=
- bag	=	✓ - Sock	=
- match	=	✓ - copybook	=
- Spoon	=	- potato	=
- Child	=	- toy	=
- Bee	=	- computer	=
- Man	=	- Form	=
- Knife	=	- Table	=
- Tooth	=	✓ - policeman	=
- Dress	=	- letter	=
- Ox	=	- Sheep	=
- Pupil	=	- word	=
- capital	=	✓ - heart	=
- Body	=		

Put the words below into plural form

- | | | | |
|-----------|--------------|-------------|----------------|
| - School | = schools... | - other | = others. |
| - Baby | = babies. | - watch | = watches. |
| - Teacher | = teachers. | - House | = houses.. |
| - Lady | = ladies... | - brush | = brushes |
| - Tree | = trees..... | - leaf | = leaves.. |
| - Car | = cars..... | - Box | = boxes. |
| - Ring | = rings... | - Wife | = wives .. |
| - cheer | = cheers... | - cloth | = cloths |
| - Mother | = mothers | - Glass | = glasses.. |
| - Picture | = pictures. | - Door | = doors... |
| - Fox | = foxes... | - country | = countries |
| - Boy | = boys..... | - Tomato | = tomatoes |
| - bag | = bags.... | - Sock | = socks.. |
| - match | = matches | - copybook | = copybooks |
| - Spoon | = spoons... | - potato | = potatoes |
| - Child | = children | - toy | = toys.... |
| - Bee | = bees..... | - computer | = computers |
| - Man | = men... | - Form | = forms... |
| - Knife | = knives. | - Table | = tables... |
| - Tooth | = teeth... | - policeman | = policemen |
| - Dress | = dresses.. | - letter | = letters..... |
| - Ox | = .oxen... | - Sheep | = sheep..... |
| - Pupil | = pupils.. | - word | = words... |
| - capital | = capitals | - heart | = hearts. |
| - Body | = bodies | - copy | = copies. |

VERBES IRRÉGULIERS

* en américain

INFINITIF	PRÉTÉRIT	PARTICIPE PASSÉ	TRADUCTION
awake	awoke, awaked	awoken, awaked	éveiller
bear	bore	borne	porter/supporter
beat	beat	beaten	naître
become	became	become	battre
begin	began	begun	devenir
bend	bent	bent	commencer
bite	bit	bitten	courber
bleed	bled	bled	mordre
blow	blew	blown	saigner
break	broke	broken	souffler
bring	brought	brought	casser
build	built	built	apporter
burn	burnt, burned*	burnt, burned*	construire
burst	burst	burst	brûler
buy	bought	bought	éclater
catch	caught	caught	acheter
choose	chose	chosen	attraper
come	came	come	choisir
cost	cost	cost	venir
creep	crept	crept	coûter
cut	cut	cut	ramper
deal	dealt	dealt	couper
dig	dug	dug	distribuer
do, does	did	done	creuser
draw	drew	drawn	faire
dream	dreamt, dreamed*	dreamt, dreamed*	tirer, dessiner
drink	drank	drunk	rêver
drive	drove	driven	boire
eat	ate	eaten	conduire
fall	fell	fallen	manger
feed	fed	fed	tomber
feel	felt	felt	nourrir
fly	flew	flown	sentir
forbid	forbade, forbad	forbidden	voler
forget	forgot	forgotten	interdire
forgive	forgave	forgiven	oublier
freeze	froze	frozen	pardonner
get	got	got, gotten*	geler
give	gave	given	obtenir/devenir
go	went	gone	donner
grow	grew	grown	aller
hang	hung	hung	croître, devenir
hang	hanged	hanged	prendre (à)
hear	heard	heard	prendre (pendaison)
hide	hid	hidden, hid	entendre
hit	hit	hit	cacher
hold	held	held	frapper
hurt	hurt	hurt	tenir
keep	kept	kept	blesser/faire mal
know	knew	known	garder/conserver
lay	laid	laid	savoir/connaître
lead	led	led	poser
lean	leant, leaned*	leant, leaned*	mener, conduire
learn	learnt, learned*	learnt, learned*	pencher
leave	left	left	apprendre
lend	lent	lent	laisser
let	let	let	prêter
lie	lay	lain	laisser (faire), louer
			être couché

* en américain

INFINITIF	PRÉTÉRIT	PARTICIPE PASSÉ	TRADUCTION
light	lit, lighted	lit, lighted	allumer/éclairer
lose	lost	lost	perdre
make	made	made	faire/fabriquer
mean	meant	meant	signifier/vouloir dire
meet	met	met	rencontrer
mistake	mistook	mistaken	prendre (pour) par erreur
overcome	overcame	overcome	surmonter
overtake	overtook	overtaken	dépasser
pay	paid	paid	payer
put	put	put	mettre
read [ri:d]	read [red]	read [red]	lire
ride	rode	ridden	monter (à cheval...)
ring	rang	rung	sonner
rise	rose	risen	se lever
run	ran	run	courir
saw	sawed	sawn, sawed	scier
say [sei]	said [sed]	said [sed]	dire
see	saw	seen	voir
seek	sought	sought	chercher
sell	sold	sold	vendre
send	sent	sent	envoyer
set	set	set	placer
shake	shook	shaken	secouer/trembler
shine	shone	shone	briller
shoot	shot	shot	tirer/abattre
show	Showed	shown, showed	montrer
shut	shut	shut	fermer
sing	sang	sung	chanter
sink	sank	sunk	sombrer/couler
sit	sat	sat	être assis
sleep	slept	slept	dormir
slide	slid	slid	glisser
smell	smelt	smelt	sentir (odorat)
speak	spoke	spoken	parler
spell	spelt, spelled*	spelt, spelled*	épeler/orthographier
spend	spent	spent	passer
spit	spat	spat	cracher
split	split	split	fendre
spread	spread	spread	répandre
spring	sprang	sprung	s'élancer
stand	stood	stood	être debout
steal	stole	stolen	voler
stick	stuck	stuck	coller
stink	stank, stunk	stunk	puer
strike	struck	struck	frapper
swear	swore	sworn	jurer
sweep	swept	swept	balayer
swim	swam	swum	nager
swing	swung	swung	se balancer
take	took	taken	prendre
teach	taught	taught	enseigner
tear	tore	torn	déchirer
tell	told	told	dire/raconter
think	thought	thought	penser
throw	threw	thrown	jeter
understand	understood	understood	comprendre
undertake	undertook	undertaken	entreprendre
wake	woke, waked	woken, waked	éveiller
wear	wore	worn	porter (vêtements)
weep	wept	wept	pleurer
win	won	won	gagner
write	wrote	written	écrire

The passive voice

Passive voice is used when the focus is on the action. It is not important or not known, however, who or what is performing the action.

When rewriting active sentences in passive voice, note the following:

- the object of the active sentence becomes the subject of the passive sentence
- the finite form of the verb is changed (*to be* + past participle)
- the subject of the active sentence becomes the object of the passive sentence (or is dropped)

Tense	Active Voice	Passive Voice
- Present	The boys eat the pie.	The pie is eaten by the boys
- Present (continuous) progressive	The boys are eating the pie	The pie is being eaten by the boys
- Present perfect	The boys have eaten the pie	The pie has been eaten by the boys
- Past	The boys ate the pie	The pie was eaten by the boys
- Past progressive	The boys were eating the pie	The pie was being eaten by the boys
- Past perfect	The boys had eaten the pie	The pie had been eaten by the boys
- Future	The boys will eat the pie	The pie will be eaten by the boys
- Future continuous (progressive),	The boys are going to eat the pie.	The pie is going to be eaten by the boys
- Future perfect	The boys will have eaten the pie	The pie will have been eaten by the boys

* The passive voice can also be used with modals

Present modals

Active : The boys can eat the pie

Passive : The pie can be eaten by the boys

Past modals

Active : The boys could have eaten the pie

Passive : The pie could have been eaten by the boys

4-Distinction style scientifique/ style journalistique / style littéraire:

Pour mieux distinguer le discours scientifique des autres types de discours nous utilisons le tableau suivant:

	Style scientifique	Style journalistique	Style littéraire
But	Informer et présenter au lecteur une solution pratique ou théorique à un problème scientifique	Informer et susciter la réflexion du lecteur	Susciter l'émotion, l'intérêt et la réflexion du lecteur
Moyen	Décrire, expliquer ou prédire un phénomène	Présenter les faits, les analyser, les mettre en perspective; au besoin les critiquer	Décrire une réalité au moyen des impressions et des états d'âme du narrateur, d'un personnage, d'un héros, selon une époque et une culture données
Support	Livre, chapitre de livre, article et rapport scientifiques	Journal, quotidien, site internet	Roman, nouvelle, poésie, pièce de théâtre, cinéma
Statut du rédacteur	Scientifique, professeur d'université ou de cégep	Journaliste	Écrivain, romancier, poète, cinéaste
Point de vue du rédacteur	Tend vers l'objectivité/Évitez le JE/Utilisez le NOUS avec parcimonie/Optez pour la forme impersonnelle	Tend vers l'objectivité et la critique/Le JE est permis dans les éditoriaux et les chronique d'humour ou les billets	Cherche à développer un point de vue original (= subjectif)/Roman écrit au JE ou à la forme impersonnelle
Statut du lecteur	Un autre scientifique, un érudit, un étudiant en science	Abonnés, Monsieur madame Tout-le-monde	Monsieur madame Tout-le-monde
Syntaxe (structure de phrase du texte)	Obéit aux règles grammaticales, mais se veut simple et directe ; privilégiez la précision et la cohérence du propos à la beauté du style	Obéit aux règles grammaticales, mais se veut simple et directe; privilégiez la clarté et la concision à la beauté du style	Obéit aux règles grammaticales, mais elle se veut créative et souvent + dense; privilégiez les tours de phrase audacieux, qui sortent des sentiers battus, aux conventions de style et autres prêt-à-lire
Ponctuation	Obéit aux règles de la ponctuation	Obéit aux règles de la ponctuation	Obéit aux règles de la ponctuation, mais certains auteurs font fi des conventions (roman sans point, sans paragraphe ou sans E)

in a form of writing where discussion in different ways
using a scientific style. (A-B-C)

Temps des verbes	Utiliser le présent/la forme active	Selon la nature des faits qui sont rapportés	+ souvent le présent et le passé simple
Utilisation des métaphores, des synonymes ou des effets de style	Rarement, on utilise le terme le plus précis, vingt fois de suite s'il le faut	Parfois pour fleurir le texte, mais sans perdre de vue que la clarté du propos doit primer sur toute autre considération	Souvent pour enjoliver le texte, le rendre plus agréable à lire, plus original
Vocabulaire	Usage fréquent de termes techniques et théoriques (jargon scientifique). L'invention est permise si elle correspond à une découverte ou à une nuance théorique	Vocabulaire usuel (de tous les jours), parfois technique si le sujet s'y prête	Vocabulaire riche, utilisation de mots rares, création de nouveaux mots, de nouvelles expressions. L'invention est permise
Principales caractéristiques de ce style	Précision et cohérence du propos	Simplicité et clarté du propos	Créativité et singularité du propos
Pièges à éviter	Utiliser des synonymes qui s'éloignent du sens premier, phrase ou paragraphes trop longs, concept non-définis, effet de style, absence de références, plagiat	Utilisation du jargon, trop de chiffres, plagiat	Lieux communs, clichés, plagiat
Exceptions/Variantes	La vulgarisation scientifique emprunte parfois au style journalistique (Ex : Yanick Villedieu, Jean-Pierre Rogel)	La chronique d'humour emprunte parfois au style littéraire (Ex : Pierre Foglia, Jean Dion)	La science-fiction et le roman d'anticipation empruntent parfois au style scientifique (Ex: Jules Verne, Michael Crichton)
Contenu s'appuie sur des sources ?	Oui, nécessaire: sources citées dans le texte et en références.	Oui, souvent: mais parfois confidentielles	Oui, parfois : roman historique ou science-fiction

5- Élaboration d'un cours LSP

Selon C. Parpette (2003), le processus de l'élaboration d'un cours en LSP (ou en FOS) implique les étapes suivantes :

TRADUCTION

P53, LE GÈNE QUI DÉTRUIT LE CANCER

Depuis que les biologistes font des recherches sur le cancer, il y a un espoir qu'ils ont toujours entretenu : celui que pour les nombreux cancers susceptibles de ronger un corps – qu'il s'agisse de cancers du foie, du col de l'utérus, du sein, de la vessie, ou encore de cancers du poumon ou du colon qui enveloppent des organes vitaux tel un linceul – il existe en définitive un seul et même stade au-delà duquel des cellules deviennent cancéreuses. En faisant agir les médicaments à ce stade-là, les médecins pourraient empêcher une cellule de suivre la route qui la transforme en cellule cancéreuse de la même façon qu'un aiguilleur empêche un train d'emprunter la mauvaise voie. Il se trouve qu'un gène appelé p53 pourrait faire fonction d'aiguilleur. Si p53 est sain et fait son travail, la cellule reste sur les bons rails. Mais si le gène est absent, endommagé ou emprisonné par d'autres molécules, la cellule change de rails et devient cancéreuse.

Il a fallu attendre 1989 pour que Levine et Vogelstein découvrent séparément la véritable nature du p53, à savoir qu'il détruit les tumeurs. Aujourd'hui on recense plus de 5200 articles sur le p53 et les biologistes ont la conviction que le p53 est promis à des jours encore meilleurs. « Ce qui me plaît énormément avec le p53, c'est qu'il est annonciateur de traitements anticancéreux, dit Levine de l'université de Princeton. Pour la première fois, nous pouvons vraiment utiliser les recherches faites en laboratoire à des fins médicales pratiques. »

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VERSION SUIVIE**P53, THE CANCER KILLER**

For as long as biologists have studied cancer, they have nurtured one dream. Their hope has been that, for all of the many different cancers that can eat away at a body – from the liver, cervical, breast or bladder cancers, to the lung and colon cancers that envelop vital organs like a death shroud – there will turn out to be a single step that determines whether cells turn cancerous. By targeting drugs at that step, physicians would be able to stop a cell from heading down the path toward cancer just as a switchman stops a train from going down the wrong track. It turns out that a gene called p53 may be that switch. If p53 is healthy and doing its job, it keeps the cell on the track of normalcy. But if the p53 gene is absent, damaged or tied up by other molecules, the cell goes down the track toward cancer.

It was not until 1989 that Levine and Vogelstein separately discovered p53's true colors: it was a tumor killer. Today there are more than 5,200 published studies on p53, and biologists are convinced that p53 is bound for even greater glory. "What I like so much about p53 is that it predicts ways to treat cancer," says Princeton's Levine. "For the first time, we can honestly translate from the lab to clinic."

Newsweek

VERSION SUIVIE

THE DEBATE OVER GLOBAL WARMING

Hardly a month goes by without some magazine or newspaper arguing that human pollution is altering the environment, creating dangerous global warming, with disastrous effects for agriculture, industry and lifestyles worldwide. Quoting environmentalists and a wide range of other experts, these articles often state that the atmosphere has already heated up half a degree centigrade this century, an ominous sign of the problems to come.

Such articles are often followed by the writings of a passionate nay-sayer insisting the scientific evidence for "so-called" global warming is too uncertain, after all. To reduce human activities that create greenhouse gases, say these pundits, would be economically catastrophic, especially since no one knows for sure whether these gases are at the root of global warming in the first place.

Despite the cacophony there are regions of the earth where the impact of global warming is all too clear. Residents of the Alps, for instance, have long known that climate change is a reality for them. Old-timers have witnessed impressive recession of most Alpine glaciers, but their observations do not prove that glacial shrinking and an increase in greenhouse gases are linked.

Newsweek

TRADUCTION**LE DÉBAT SUR LE RÉCHAUFFEMENT DE LA PLANÈTE**

Il ne se passe pratiquement pas un mois sans qu'un magazine ou un journal affirme que la pollution humaine transforme l'environnement, crée un réchauffement de la planète qui est dangereux et a des conséquences désastreuses sur l'agriculture, l'industrie et les modes de vie partout dans le monde. Se faisant l'écho des écologistes et d'un éventail varié d'autres experts, ces articles affirment souvent que l'atmosphère s'est déjà réchauffée d'un demi degré centigrade au cours du XX^e siècle, ce qui augure mal des problèmes à venir.

De tels articles sont souvent suivis par les écrits d'un opposant passionné qui affirme que, tout bien considéré, les preuves scientifiques d'un "prétexte" réchauffement de la planète sont insuffisantes. Réduire les activités humaines qui créent les gaz à effet de serre, disent ces spécialistes, serait une catastrophe économique, d'autant plus que personne ne sait avec certitude si, au départ, ces gaz sont la cause du réchauffement de la planète.

En dépit de cette cacophonie, il y a des régions de la terre où l'impact du réchauffement de la planète est particulièrement visible. Par exemple, ceux qui vivent dans les Alpes savent depuis longtemps que le changement du climat est pour eux une réalité. Les anciens ont assisté à un recul spectaculaire de la plupart des glaciers alpins, mais leurs observations ne prouvent pas que la réduction glaciaire et l'augmentation des gaz à effet de serre soient liées.

VERSION SUIVIE**THE DEBATE OVER GLOBAL WARMING**

Hardly a month goes by without some magazine or newspaper arguing that human pollution is altering the environment, creating dangerous global warming, with disastrous effects for agriculture, industry and lifestyles worldwide. Quoting environmentalists and a wide range of other experts, these articles often state that the atmosphere has already heated up half a degree centigrade this century, an ominous sign of the problems to come.

Such articles are often followed by the writings of a passionate nay-sayer insisting the scientific evidence for "so-called" global warming is too uncertain, after all. To reduce human activities that create greenhouse gases, say these pundits, would be economically catastrophic, especially since no one knows for sure whether these gases are at the root of global warming in the first place.

Despite the cacophony there are regions of the earth where the impact of global warming is all too clear. Residents of the Alps, for instance, have long known that climate change is a reality for them. Old-timers have witnessed impressive recession of most Alpine glaciers, but their observations do not prove that glacial shrinking and an increase in greenhouse gases are linked.

Newsweek

Guide to technical report writing

INTRODUCTION

The purpose of a technical report is to completely and clearly describe technical work, why it was done, results obtained and implications of those results. The technical report serves as a means of communicating the work to others and possibly providing useful information about that work at some later date. A well-written report allows the reader to quickly understand what has been accomplished. The report also provides sufficient detail to allow the reader to recreate the results although the level of detail provided depends heavily on the report's audience and any proprietary nature of the work.

THE FORMAL TECHNICAL REPORT

The formal technical report contains a complete, concise, and well-organized description of the work performed and the results obtained. Any given report may contain all of the sections described herein... or a subset, depending upon the report requirements. These requirements are decided by the author and are based on the audience and expected use of the report.

1. Introduction

A technical report is a formal report designed to convey technical information in a clear and easily accessible format. It is divided into sections which allow different readers to access different levels of information. This guide explains the commonly accepted format for a technical report; explains the purposes of the individual sections; and gives hints on how to go about drafting and refining a report in order to produce an accurate, professional document.

2. Structure

A technical report should contain the following sections;

Section	Details
Title Page	Must include the title of the report. Reports for assessment, where the word length has been specified, will often also require the summary word count and the main text word count
Summary	A short summary of the whole report including important features, results and conclusions
Contents	Numbers and lists all section and subsection headings with page numbers
Introduction	States the objectives of the report and comments on the way the topic of the report is to be treated. Leads straight into the report itself.
The sections which make up the body of the report	Divided into numbered and headed sections. These sections separate the different main ideas in a logical order
Conclusions	A short, logical summing up of the theme(s) developed in the main text
References	Details of published sources of material referred to or quoted in the text (including any lecture notes and URL addresses of any websites used)
Bibliography	Other published sources of material, including websites, not referred to in the text but useful for background or further reading.
Acknowledgements	List of people who helped you research or prepare the report, including your proofreaders
Appendices (if appropriate)	Any further material which is essential for full understanding of your report (e.g. large scale diagrams, computer code, raw data, specifications) but not required by a casual reader

The battle to save AFRICA'S RHINOS

In the first eight months of 2015,
750 rhinos were killed by
poachers* across Africa. If the
killing continues, they could
disappear in the near future...

Three rhinoceroses will be killed by poachers* today. In each case, the poachers will probably be a gang of three men: one to carry the hunting* rifle, another to carry an axe*, and a third to carry their food and water. Most probably, they will enter South Africa's Kruger National Park under cover of darkness, using their tracking* skills to hunt* down and kill rhinoceroses for their horns*.

Increasingly, they might be accompanied by two more men carrying guns in case there is a shoot-out* with park rangers*. It is not just rhinos who die in this business – nearly 500 poachers have been shot* dead in the past five years.

"Wildlife* is seen as a rich white man's thing," says Vincent Barkas, head of an anti-poaching security company. "A poacher is viewed as a Robin Hood in his community, stealing from the rich. The way they survive in the bush*, you can't help* but have a little bit of respect for them. To go into the park at night with a rifle takes some balls*."

Behind the poachers, who number in their thousands, are a small number of gang leaders, a mixture of whites and blacks. They take none of the risk, but have become rich supplying*

the growing demand for rhino horn in Vietnam and China, where it is believed to be a cure-all* for everything from cancer to hangovers*.

The South African authorities have tried everything to stop the poachers. They cut the horns off many rhinos to make them less valuable, but the poachers will still kill them for the 250g of horn that remains in their skull*. They have implanted rhino horns with tracking* devices that can monitor* their vital signs, but in a 20,000 sq km park such as Kruger the response time by rangers is naturally limited – they might catch the poachers, but it will be too late for the rhino. They have even deployed drones to fly above the rhinos and look out for poachers. None of this is working – every year the number of rhinos killed is going up dramatically.

"If you kill 10,000 poachers, there will be another 10,000 waiting to take their place," says Adam Welz of WildAid South Africa. Rhinos will continue to die, Welz believes, until we end "the source of demand".

In other words, the only solution to the crisis is not in South Africa, but thousands of miles away in Vietnam and China.



AUDIO 5
Save the rhino
A écouter sur votre CD ou sur votre smartphone.

VOCAB P.18 & P.19

axe: hache
balls (it takes ...): (vulg.) il faut avoir des couilles
bush: brousse

cure-all: remède miracle
hangover: gueule de bois
help (you can't ...):

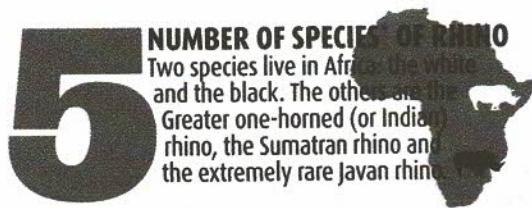
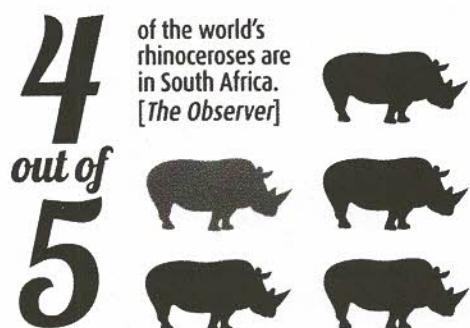
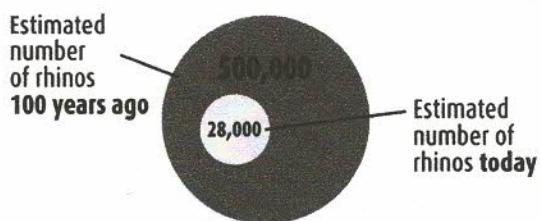
on ne peut pas s'empêcher de

hunt down: chasser
income: revenu
monitor: contrôler
poacher: braconnier
ranger (park ...):

garde forestier
shoot (p. shot) dead: tuer par balle
shoot-out: fusillade
skull: crâne
species: espèce

supply: fournir
tracking device: GPS
tracking skills: talents de pisteur
wildlife: faune sauvage
worth: valeur

WORLD RHINO POPULATION [*The Observer*]



RHINO LIVES [*The Observer*]

Every 8 hours

Average frequency of rhinos killed by poachers* in 2014

16 months

Rhinoceros gestation period

40 years

Normal life expectancy of a rhino

45 km/hour

Speed at which black and white rhinos can run

WORTH* MORE THAN ITS WEIGHT IN GOLD [*The Observer*]



\$36,282
Price of gold per kilo



\$65,000
Price of rhino horn* per kilo in Asia

NUMBER OF RHINOS KILLED [www.savetherhino.org]

2007	13
2011	448
2014	1,045

POACHER* POVERTY [*The Observer*]



\$250
Average annual income* in Mozambique, where most poachers come from

\$7680
Income* that poachers receive per kilo of rhino horn*

