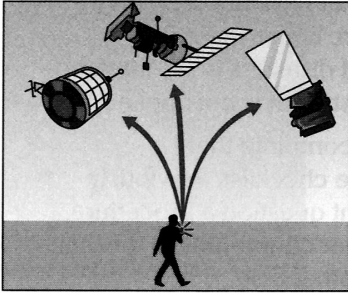


## 1 Progress

1 Match the noun phrases 1–8 with the definitions a–h.



1 <u>a</u> virtual reality	a) a component that can measure inclinations on two axes at the same time
2 ___ augmented reality	b) a website that allows users to create their own profiles and view other people's profiles
3 ___ digital value	c) a real environment with added computer-generated details
4 ___ tilt sensor	d) a set of numbers generated by satellite positions that enables a location on the Earth's surface to be specified
5 ___ digital compass	e) computer-generated information
6 ___ social (networking) website	f) computer software designed to help users perform related tasks, e.g. graphics
7 ___ GPS co-ordinates	g) a computer-generated environment that seems real
8 ___ application (app)	h) an electronic navigational instrument that determines direction

2 Write a description of a prototype cordless handheld computer, using the notes in the table and the appropriate language forms.

## The Voyager – handheld computing on the move

Aim	new handheld computers / develop / overcome / limitations of smartphone screen size
Components	large screen (25 mm diagonal) / built-in lithium-polymer battery / = 10 hours use-time; solid-state flash processor / choice of 16 GB/32 GB/64 GB capacity
Operation	features / available / inside a particular app; users / 'pinch, swipe and tap' / interactive screen / while navigating app / 12 mm-wide border / around / active display screen; useful / hold / Voyager / keep fingers off active display
Method	1 GHz ARM processor / includes integrated 3D graphics, audio, power management + storage → load apps + web pages from internet
Outdated technology	in the past / stylus / used / on interactive screen + handwriting recognition software; smartphones / have / disadvantage / very small screen
Recent development	virtual keyboard / provide / for Voyager → tap-typing / lots of text / much easier / than on smartphone
Work in progress	home screen interface / redesigned → incorporate user-controlled options; GPS live-data program / adapted → installed / as standard app / on Voyager
Further work required	Voyager / needs / fitted / camera → used / video conferencing + online chatting; this work / planned / next model
Future target	more people / turn to cordless handheld format / for / portable computing needs → number of available apps / no doubt / increase rapidly

Begin: *Aim: New cordless handheld computers are being developed to overcome the limitations of the smartphone screen size.*

*Components: The system consists of a ...*

## 2 Comparison

1 Complete this text using the words in the box.

capacitive capacitive clarity conductivity durability durable electrical  
light metallic resistive resistive resistive sharp up-to-date



There are two types of touch screen – the resistive type and the capacitive one. The (1) resistive screen works like this: when you press the two metallic layers together, you complete an (2) \_\_\_\_\_ circuit at the point of contact. By contrast, the (3) \_\_\_\_\_ screen uses the (4) \_\_\_\_\_ of the user's finger instead of pressure. The metallic layer on the screen stores an electric charge. Then the finger draws current to the contact point. That's why, unlike the resistive screen, the capacitive screen has only one (5) \_\_\_\_\_ layer, because the user's finger acts as the other plate of the capacitor.


If the (6) \_\_\_\_\_ of the screen is important, that's a problem for the (7) \_\_\_\_\_ type, because the two metallic layers on the screen filter out a lot of light. By comparison, the clarity of the (8) \_\_\_\_\_ screen is much greater. That's why resistive screens are only found these days on older computer monitors. Capacitive screens are much more (9) \_\_\_\_\_.

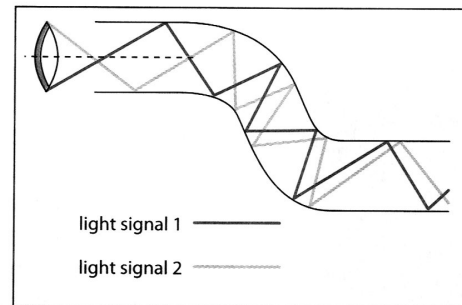
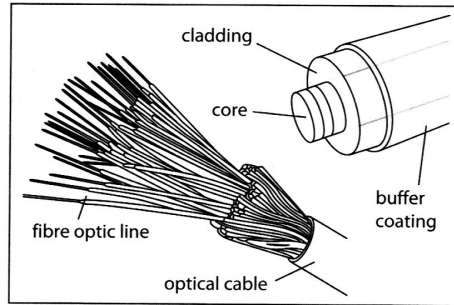
The capacitive screen only works if you touch it with your finger. Conversely, a resistive screen works if you use a pen or any other object that isn't (10) \_\_\_\_\_. Concerning (11) \_\_\_\_\_, both types can be damaged if you scratch them with a sharp object. If the screen is going to be in a public place rather than on a desk, the (12) \_\_\_\_\_ one may be better as it is slightly more durable than the capacitive one. However, compared with the capacitive screen, the resistive one can wear out very quickly. As the resistive one works by pressing two layers together, that automatically leads to wear and tear, and eventually the circuitry wears down. So in a way the capacitive screen is rather more (13) \_\_\_\_\_, because the touch can be very (14) \_\_\_\_\_ indeed and the screen will still respond.


2 Join these pairs of sentences about TVs into single sentences that have a similar meaning. Use the words in brackets and make any other necessary changes.

- Misawa is not like other manufacturers. It delivers top-class picture quality across the price range. (Unlike)  
Unlike other manufacturers, Misawa delivers top-class picture quality across the price range.
- Misawa is not moving away from plasma. It believes that this format is best suited to 3D TV. (Instead of)  
\_\_\_\_\_
- Picture clarity may not improve this year. Its new TVs, however, will have greater energy efficiency. (While)  
\_\_\_\_\_
- The outdated Sakatas are difficult to use. The new Sakatas are less difficult to use. (much easier)  
\_\_\_\_\_
- The screen of the Sakata 101 is reflective. The screen of the Sakata 201 is slightly more reflective. (than that)  
\_\_\_\_\_
- Expensive models have good acoustic quality. On cheaper models, it is poor. (compared)  
\_\_\_\_\_
- You need a higher frame rate when watching sport. However, the software can make the picture look unnatural. (although)  
\_\_\_\_\_

### 3 Product

- 1  18 Listen to an introductory talk about fibre optics. Are these statements *true* (T) or *false* (F)? Correct the false ones.



- 1 Fibre optics transmit light signals over long distances.
  - 2 Fibre optics can transmit infrared light.
  - 3 LEDs are more powerful but more variable light sources than lasers.
  - 4 The cladding around a fibre optic line helps reflect the light inside the core.
  - 5 Copper wires need fewer relay systems than fibre optics.
- 2  18 Listen again and complete the speaker's words with the words and phrases in the box.

another way of putting it is or that is that is that is to say  
to put that another way to put this in everyday language

- 1 Now, I've got a slide here of a fibre optic line, \_\_\_\_\_ *or* \_\_\_\_\_ 'fibre', as it's sometimes called. In the centre you have the core, \_\_\_\_\_ the hollow glass tube ...
  - 2 Fibres are very narrow; they can be from 9 microns to 62 microns in diameter. \_\_\_\_\_, they have the same diameter as a human hair.
  - 3 ... but they vary more with ambient changes, or \_\_\_\_\_, they are more variable in their performance ...
  - 4 ... the light wave can travel great distances. \_\_\_\_\_ that this system allows signals to go round bends and travel a long way.
  - 5 In due course, the light signal degrades, \_\_\_\_\_, it becomes weaker and less pure.
  - 6 In addition, signals through copper wires suffered greater degradation, \_\_\_\_\_ there was often a loss of signal ...
- 3 Match the words and phrases 1–9 in the text below with their less formal equivalents.

___ restored	___ be greater than	___ light flashes
<u>1</u> greatly	___ long-distance	___ get rid of
___ impossible to decode	___ less pure	___ shown


Scientists have demonstrated a system that could (1) *substantially* improve the data capacity of fibre optic networks. They say the growth in applications such as YouTube will eventually (2) *exceed* the limits of long-distance optical fibre links. The improved system would (3) *eliminate* most of the interference caused by other signals and amplifiers. Data is sent down an optical fibre as a sequence of (4) *bits coded into a light beam*, but it can become distorted over long distances. That can occur because of 'cross-talk' – signals sent down a fibre that influence one another. The result is that the digital signal becomes (5) *degraded* and (6) *unintelligible*. While this can be overcome with existing electronics, the result has the effect of reducing data capacity. Now, a team has (7) *demonstrated* a device that can clean up a signal and re-transmit it with fuller capacity. The signal for re-transmission is (8) *reconditioned* at the precise digital level required. This is of particular interest for (9) *long-haul* links, where data cables stretch across continents or oceans.

## 4 Word list

COMPOUND NOUNS	NOUNS	ADJECTIVES	VERBS
augmented reality	capability	acoustic	clap
camera lens	clarity	capacitive	label
centrifugal force	co-ordinates (plural)	conductive	oscillate
contact point	concept	durable	project
digital compass	conductivity	electromagnetic	protect
digital value	contaminant	hesitant	retrieve
disaster relief	durability	infrared (IR)	seal
live data	fluidity	interactive	solve
magnetic wave	gesture	metallic	squeeze
social network	limitation	nearby	superimpose
social website	overlay	outdated	vibrate
static data	projector	relevant	
surface acoustic wave (SAW)	radiation	resistive	
tilt sensor	reflector	specific	
virtual reality	resilience		
war zone	smartphone		
wave amplitude	stylus		
wireless broadband	substance		
	target		

1 Match noun phrases and nouns from columns 1 and 2 of the Word list with their definitions.

- 1 stylus: something shaped like a pen for writing on a computer screen or pad.
- 2 \_\_\_\_\_: a system of high-speed connection to the internet without using electrical or telephone wires.
- 3 \_\_\_\_\_: information that does not change from one moment to the next.
- 4 \_\_\_\_\_: a substance that makes something dirty.
- 5 \_\_\_\_\_: the place where you touch something, e.g. with your finger, or an instrument.
- 6 \_\_\_\_\_: a movement of part of your body, particularly hand, finger or head.
- 7 \_\_\_\_\_: the ability to last for a long time in good condition.
- 8 \_\_\_\_\_: a piece of equipment that makes a film or picture appear on a screen or flat surface.
- 9 \_\_\_\_\_: information that is constantly being updated.
- 10 \_\_\_\_\_: the ability to conduct electricity.

2  19 Write the words in the box on the correct lines, according to the pronunciation of the 'a' vowels underlined. Then listen and check.


capability capacitive clarity contaminant data digital disaster label limitation  
metallic radiation reality surface

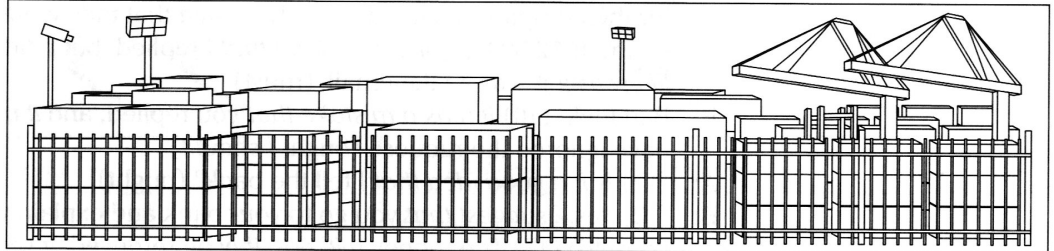
- 1 'a' as in 'say': capability \_\_\_\_\_
- 2 'a' as in 'cap': \_\_\_\_\_
- 3 neither 1 nor 2: \_\_\_\_\_

## 1 Proposals

1 Match the devices 1–8 with the definitions a–h.

1 <u>f</u> motion sensor	a) a device which detects the presence of a person in an unauthorised area and triggers an alarm
2 ___ thermostat	b) a network that repairs itself, and allows an alarm to be raised if one component device fails
3 ___ light sensor	c) a device that senses burning particles and triggers an alarm
4 ___ moisture detector	d) a battery-powered switch that 'wakes up' in order to transmit or receive a signal
5 ___ intrusion sensor	e) a device that detects a level of excessive humidity and raises an alarm
6 ___ radio-enabled switch	f) a device that detects movement in a room and triggers a light switch to turn on
7 ___ smoke detector	g) a device that triggers a light (circuit) and turns it on when the ambient light is insufficient
8 ___ self-healing mesh network	h) a device that measures temperature and triggers a switch to turn on or off

2  23 Listen to a conversation between the security systems manager of a port and a security systems salesman. Answer these questions.



- 1 Is the manager interested in monitoring vehicles or people, or both?
- 2 How is security maintained at present?
- 3 What is the manager's reaction to the salesman's recommendations?
- 4 Is the new system designed to deal with current or future requirements, or both?
- 5 Has a detailed security proposal been submitted?

3  23 Listen again and complete these questions and answers.

- 1 We need to keep an eye on all vehicle movements into and out of the port, as well as vehicles moving around inside it.
- 2 Incidentally, when \_\_\_\_\_ through the port, they often stop and ask for directions.
- 3 We need to \_\_\_\_\_ for these patrols.
- 4 How \_\_\_\_\_ a lighting and CCTV network?
- 5 The CCTV cameras must \_\_\_\_\_ inside and outside the port facilities.
- 6 I think we'll \_\_\_\_\_, including radio-enabled sensors.
- 7 It hasn't modernised, and it's \_\_\_\_\_, so ...
- 8 So, as a first step, \_\_\_\_\_ for the systems we've discussed?

## 2 Definitions

- 1 Make definitions by numbering one phrase from each of columns 3 and 4. Some alternatives from column 3 are possible.

Name	be	Generic noun	Function
1 A thermostat	is	a detector ____	which measures the carbon content of molten metal. ____
2 GNSS*		a device <u>1</u>	for setting international standards. ____
3 A tyre pressure gauge		a gauge ____	which measures humidity in substances. ____
4 A CO alarm		an instrument ____	for measuring air pressure in vehicle tyres. ____
5 The ISO		a process ____	____
6 Electroplating		a sensor ____	that provides global geo-spatial positions. ____
7 A moisture meter		an organisation ____	for measuring variations in temperature. <u>1</u>
8 A carbon sensor		____	that measures the concentration of CO. ____
		a system ____	that coats metal objects with another metal. ____

\*Global Navigation Satellite System

- 2 Combine these notes with a basic definition from 1 to write an expanded, single-sentence definition. The devices are in a different order from 1.

Example: *1 A moisture meter is a portable battery-operated instrument with two electrodes which measures humidity in substances by measuring the electrical resistance between two points.*


- portable, battery-operated / two electrodes / measures electrical resistance between two points
- consists of / flattened thin-wall closed-end tube / connected / at open end / pipe / containing air pressure to be measured
- voluntary / for trading categories of goods → allows / encourages / fair competition
- navigational / uses GPS co-ordinates / means / electronic receivers
- mounted on end of lance / in converter / during steelmaking process
- small / battery-operated / contains electrochemical fuel cell / emits audible alarm / when concentration exceeds safe limit
- plating / uses an electrical current / immerses them / bath / electrolyte
- heat-sensitive, electrical / consists of two dissimilar wires

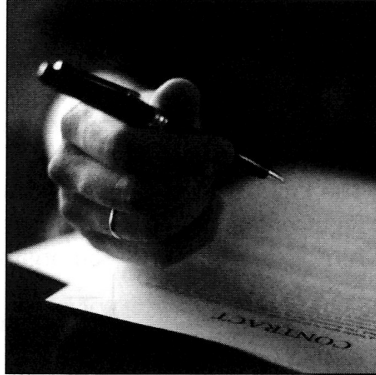
- 3 Find words in the puzzle to match the definitions below.


O	P	H	O	T	O	E	L	E	C	T	R	I	C
P	R	S	P	A	T	I	A	L	T	R	E	Q	O
M	E	Y	T	U	J	W	O	Z	P	M	L	S	M
F	C	D	I	S	S	I	M	I	L	A	R	B	P
U	I	Q	O	S	T	R	U	C	T	U	R	A	L
T	S	I	N	F	R	A	R	E	D	F	T	V	E
M	E	T	A	L	L	I	C	J	U	K	P	K	X
X	R	E	L	I	A	B	L	E	C	H	I	U	L

- an invisible light that gives out heat \_\_\_\_\_
- something which you can choose to do \_\_\_\_\_
- relating to the size or shape of things \_\_\_\_\_
- something that can be trusted \_\_\_\_\_
- exact \_\_\_\_\_
- made of metal \_\_\_\_\_
- not exactly the same \_\_\_\_\_
- using an electrical current that is controlled by light *photoelectric* \_\_\_\_\_
- not simple \_\_\_\_\_
- connected with the structure of something \_\_\_\_\_

## 3 Contracts

- 1  24 Listen to a conversation between an airport executive and a contracts manager about the construction of a new terminal building. Are these statements *true* (T) or *false* (F)? Correct the false ones.




- 1 The contract has been discussed and there are no changes.
  - 2 Two clauses about the system of payment have been changed.
  - 3 The contractor will stop work on the project if they are not paid on time.
  - 4 There is a disagreement between the contractor and client about quality standards.
  - 5 In case of heavy rain and flooding, the contractor will pay for pumping out the water.
- 2  24 Listen again and complete the conditions.
- 1 Site work must commence on the agreed date – *otherwise the contract will be cancelled*.
  - 2 \_\_\_\_\_, the penalty clauses for late completion will not be changed.
  - 3 \_\_\_\_\_ is delayed, the penalty clauses for phased completion will stand.
  - 4 Payment will be made monthly for the work certified as completed, \_\_\_\_\_ with the work.
  - 5 The contract price is due on completion, \_\_\_\_\_ 2% is withheld for a period of 12 months ...
  - 6 Surveyors, building inspectors and the client can inspect the Works \_\_\_\_\_ the previous day.
  - 7 \_\_\_\_\_ quality standards, an independent surveyor can be asked to assess the work ...
  - 8 De-watering of the site is allowed during heavy rain, \_\_\_\_\_ are informed at the start ...
- 3 Match the legal/formal words 1–10 with the non-specialist words a–j.

1 <u>d</u> nominate	a) beginning
2 ___ proviso	b) specify
3 ___ prior	c) previous
4 ___ commencement	d) choose
5 ___ intended	e) break
6 ___ unforeseen	f) proportionate
7 ___ stipulate	g) proposed
8 ___ breach	h) unexpected
9 ___ terminate	i) condition
10 ___ pro-rata	j) end

## 4 Word list

COMPOUND NOUNS	NOUNS	ADJECTIVES	VERBS
default mode	foil	dissimilar	arise
draft letter	intruder	heat-sensitive	bounce
economic downturn	loan	optional	draft
generic noun	photocell	passive infrared (PIR)	pinpoint
intrusion sensor	proposal	photoelectric	propose
mesh network	subsidy	prospective	struggle
mobile input device	theodolite	pyroelectric	tackle
motion detector	thermocouple	reliable	(LEGAL/FORMAL)
radio chip	tripod	scaleable	commence
radio-enabled sensor	voltmeter	self-healing	nominate
smoke detector	(LEGAL/FORMAL)	(LEGAL/FORMAL)	stipulate
strain gauge	breach	intended	submit
(LEGAL/FORMAL)	cancellation	prior	VERB PHRASES
legal action	circumstance	reasonable	cut down on
	commencement	unforeseen	draw up
	deadline		go about
	insurance		go for
	monies (pl)		home in on
	proviso		keep an eye on
			make one's way into
			put forward
			run down
			speed things up

- 1 Cross out the noun on each line that cannot be used with the verb phrase on the left.
- |   |                            |                  |                |                            |
|---|----------------------------|------------------|----------------|----------------------------|
| 1 | <b>cut down on</b>         | a) costs         | b) expenses    | c) <del>difficulties</del> |
| 2 | <b>draw up</b>             | a) a downturn    | b) a contract  | c) a proposal              |
| 3 | <b>run down</b>            | a) supplies      | b) stocks      | c) insurance               |
| 4 | <b>go for</b>              | a) an IT network | b) a potential | c) a package               |
| 5 | <b>home in on</b>          | a) a specialist  | b) an intruder | c) an area                 |
| 6 | <b>keep an eye on</b>      | a) security      | b) an area     | c) a presence              |
| 7 | <b>make one's way into</b> | a) a take-off    | b) a workshop  | c) a port                  |
| 8 | <b>put forward</b>         | a) a proposal    | b) a loan      | c) a suggestion            |

- 2  25 Listen to and repeat these words from the Word List. Underline the syllable with the main stress in each word.

default, economic, generic, intrusion

cancellation, circumstance, commencement, insurance, proviso

dissimilar, optional, prospective, pyroelectric, reliable





## 1 Investigation

1 28 Listen to a news report and answer these questions.

- 1 Where did the disaster happen? Kolontar, \_\_\_\_\_
- 2 When exactly did it happen? \_\_\_\_\_
- 3 What were the consequences? \_\_\_\_\_ dead; \_\_\_\_\_ injured; \_\_\_\_\_ evacuated
- 4 What were two possible causes of the accident? \_\_\_\_\_

2 28 Listen again and complete the notes in the table.

1 Area affected	<u>7</u> villages and towns, <u>40</u> sq km, _____, _____
2 Plant	alumina plant, with _____ employees
3 Reservoir	_____ in area; storing _____ tonnes of sludge
4 Spillage	_____ m <sup>3</sup>
5 Counter-measures against further flooding	new _____: _____ long, approx _____ high
6 Purpose of reservoir	storage of _____ sludge, a by-product of the alumina production process, while it _____
7 End-use of waste	dried red mud can be used for _____
8 Current use of waste	not _____; companies build another _____
9 Survey	took place _____ ago
10 Suitability of site	not suitable for reservoir, owing to _____

3 Rewrite the following sentences as conclusions and recommendations, using *should* or *shouldn't* and the passive form.

Example: 1 *The reservoir should not have been constructed with an earth dam on an unsuitable site.*

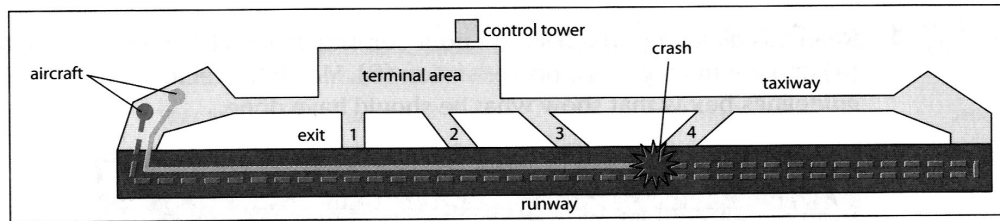
### Conclusions

- 1 They constructed the reservoir with an earth dam on an unsuitable site.
- 2 They didn't take into account the possibility of heavy rains when the capacity was determined.
- 3 They didn't periodically inspect the structure of the dam wall.
- 4 They didn't recycle the red mud after drying out.

### Recommendations

- 5 They should take the company into public ownership for a period of two years.
- 6 The disaster agency should inspect all documents concerning the reservoir, in case negligence was involved.
- 7 Workers should wear protective masks and outerwear until further notice.
- 8 The disaster agency should continue to monitor the concentration of alumina dust in the air.

## 2 Report



- 1 Look at the diagram of a plane crash and the events below. Number the first group of sentences a–h from 1–8 to show the order in which the events happened. Then number the second group i–p from 9–16 to show the correct order. Use the words and phrases printed in **bold** to help you.

Group 1: 1 d; 2 \_\_\_; 3 \_\_\_; 4 \_\_\_; 5 \_\_\_; 6 \_\_\_; 7 \_\_\_; 8 \_\_\_

Group 2: 9 k; 10 \_\_\_; 11 \_\_\_; 12 \_\_\_; 13 \_\_\_; 14 \_\_\_; 15 \_\_\_; 16 \_\_\_

### Tenerife airport disaster

- Owing to the number of planes** delayed in the terminal area and on the taxiway, planes were forced to taxi along the runway to position themselves at the end for take-off.
  - It was later found** that there were several communication misunderstandings between the controller and the pilots of both the KLM and Pan Am planes.
  - A further delay** was caused by a KLM 747 deciding to refuel, which took an estimated 35 minutes.
  - At 17.06 local time** on March 27 1977, two Boeing 747s collided on the runway of Los Rodeos Airport on the Canary Islands, with the loss of 583 lives. It remains the worst accident in aviation history.
  - Shortly afterwards**, the Pan Am plane was also instructed to backtaxi, following the KLM plane.
  - Once** extra flights started arriving at Los Rodeos, the airport quickly became very crowded.
  - After that length of time**, the KLM plane was instructed to backtaxi to the end of the runway and await clearance for take-off.
  - The chain of events started when** a terrorist bomb at Gran Canaria International Airport caused a number of flights to be diverted to Los Rodeos Airport, Tenerife, where it was very foggy.
- 
- First**, air traffic instructions were standardised internationally.
  - Immediately**, fire crews rushed to deal with the burning KLM plane.
  - As a result**, the KLM captain thought that he had received take-off clearance, whereas the controller had not given specific clearance, and started its take-off roll along the runway.
  - As a result of the accident**, the following measures were taken.
  - At this point**, the KLM pilot saw the approaching lights of the Pan Am aircraft, tried to take off, but struck the plane with its engines and undercarriage, and crashed in flames.
  - Third**, ground radar was installed at Los Rodeos Airport (renamed Tenerife North Airport).
  - At the start of the rescue operation**, fire crews were unaware for 20 minutes that the Pan Am plane was also involved in the accident, because of heavy fog.
  - Second**, cockpit procedures were changed, with more emphasis being placed on team decision-making.

- 2 Rewrite these statements about the accident, using the third conditional. Replace the italicised words with the words in brackets where applicable.

Example: *1 The crash would not have happened if Gran Canaria Airport had not been closed.*

- The crash happened; Gran Canaria Airport was closed.
- The controller was not able to see the aircraft on the ground; he couldn't give clearer instructions.
- The airport wasn't equipped with ground radar; the controller *couldn't* monitor the aircrafts' positions in poor visibility. (able)
- Communication between the controller and the pilots was *not good*; the KLM captain thought he had clearance for take-off. (better)
- The KLM flight engineer did not repeat his concern about the controller's instruction; the pilot *did not* abandon his take-off. (might)
- The pilots were not able to see each other; the fog was *very* thick. (less)
- The fire service did not go immediately to both planes; they were not able to see them.
- The KLM plane took on extra fuel, the blaze *was extremely* severe. (might / less)

### 3 Communication

- 1 Read this dialogue, which shows poor communication between a junior technician (A) and the manager of a power station (B). Match the technician's lines (1–7) with the guidelines below that show what he should have done.



- A: (1) Oh, dear. Er, uhm, I don't like the look of that.  
 B: Are you talking to me?  
 A: (2) Yes, I'm looking at the river.  
 B: What are you talking about?  
 A: (3) In my opinion, it looks like there could be a flood.  
 B: There have never been floods at this substation and I've worked here for 35 years.  
 A: (4) Shall I do anything?  
 B: No, if it floods, it floods. I've got work to do.  
 A: (5) OK, I won't disturb you anymore.  
 B: Good!  
 A: (6) I'll go and check the flood warnings online.  
 B: That's enough worrying! Go back to your work and let me get on with mine.  
 A: (7) OK, boss, as you say.

#### Guidelines

- \_\_\_\_\_ Try to get your boss's agreement to an action plan.
  - \_\_\_\_\_ Try more than once when your boss replies with indifference and later opposition.
  - \_\_\_\_\_ Suggest one or more specific solutions.
  - \_\_\_\_\_ Be very specific about the problem.
  - \_\_\_\_\_ Ask your boss to stop their work and think jointly about the problem.
  - 1 Get your supervisor's attention at the start of the conversation.
  - \_\_\_\_\_ Give full expression to your concerns.
- 2 Complete the alternative parts 1–7 below for the dialogue in 1, showing better communication. Choose the most appropriate alternative from the box for each gap.

duties / concerns emergency / incident full / great possibly / definitely  
 river height / flood alert Sorry / Excuse me worsening / changing

- Excuse me, sir!
- We've got an \_\_\_\_\_. The river's rising very fast.
- If the river continues rising, there will \_\_\_\_\_ be a flood.
- Shall I check the \_\_\_\_\_ status on the Environment Agency website, boss?
- Could we give this flood danger our \_\_\_\_\_ attention?
- Can I help draw up an action plan and a list of \_\_\_\_\_ now?
- The situation's \_\_\_\_\_ and there's a flood alert for our town. We must discuss our action now.


## 4 Word list

NOUNS	COMPOUND NOUNS	ADJECTIVES	VERBS
assertiveness	airspeed indicator	accusing	analyse
backup	autopilot system	emotional	buckle
break-up	crisis situation	extensive	contaminate
chamber	fire prevention	faulty	disable
cockpit	high-altitude thunderstorm	investigative	ensure
co-pilot	hydroelectric power station	physical	insulate
concern	in-flight communications	preliminary	shoot
cross-section	intake gate	toxic	signal
dam	metal fatigue	<b>ADVERBS</b>	vibrate
debris	pitot tube	assertively	<b>PHRASAL VERBS</b>
filtration	radio transmission	excessively	break away
fuselage	service life	offline	put back
housing	short circuit	online	rule out
outcome	take-off speed	<b>NOUNS (REPORTS)</b>	step back
penstock	turbine hall	abstract	
plant	use-by-date	attachment	
refund	video footage	background	
respect		conclusion	
reservoir		criticism	
vibration		finding	
warranty			

1 Complete this text, using the correct form of words from the Word list.

(1) *Extensive* flooding in Hungary resulted from a breach in the (2) \_\_\_\_\_ wall surrounding a (3) \_\_\_\_\_ belonging to an alumina (4) \_\_\_\_\_. Houses in nearby villages were flooded to a depth of 1.5 metres and streets were filled with (5) \_\_\_\_\_ swept along by the floods. Rivers were also (6) \_\_\_\_\_ by the (7) \_\_\_\_\_ sludge. Further consequences of the flood are detailed in the (8) \_\_\_\_\_ section of the report.

One of the (9) \_\_\_\_\_ of this report is that heavy rains in the weeks before the disaster led to the collapse of the dam wall. (10) \_\_\_\_\_ reports also suggest that the soundness of the dam was not adequately monitored and the reservoir had been constructed on an unsuitable site. An (11) \_\_\_\_\_ of the full report is available online as an (12) \_\_\_\_\_.

1  29 Write the words in the box on the correct lines, according to the pronunciation of the 'a' vowels underlined. Then listen and check.

abstract analyse attachment backup dam fatigue filtration fuselage hall  
indicator intake station vibrate

- 'a' as in 'cap': backup \_\_\_\_\_
- 'a' as in 'say': \_\_\_\_\_
- neither 1 nor 2: \_\_\_\_\_