IV.1.	Reading:	
	Posture	69
	Comprehension exercises	72
IV.2.	Grammatical summary:	
	Los auxiliares: Can, Could, May, Might, Must, Should	
	Ought to	72
	Grammatical exercises	79
		21
	Organizational exercises	
	INGENIEROS	
NIT	V .	
V.I.	Reading:	
	Physical quantities in Engineering	
	Comprehension exercises	90
V.2.	Reading:	
£	Electricity — the force that transformed the world	93
	Comprehension exercises	96
V.3.	Ourse fingrones de To Se	
V.5.	Reading: The halogens	00
	Comprehension exercises.	
	Comprehension exercises.	105
V.4.	Reading:	
	Architecture and Construction	106
	Comprehension exercises	110
	Vocabulary	113
	Auxiliares Do Does Did	
	Appendix: Some Engineering and scientific abbreviation	ons115
	Tag questions	440
	Bibliography	116

UNIT IV

# UNITI

There is no real up of a deat, in space, of mores, and this became train observat.

in the early states of the flight he thing that horsewall me and wer the sign!

. blue of the serie, the tens and however of the hand, and the white of the chieds. It

OBJETIVO:

I. 1. READING.

FIRST TO THE MOON.

Apollo 8 was the first spacecraft to orbit the moon. James A. Lovell was one of the three astronauts on board. Here he describes what it felt like.

"Up there, it's a black-and white world. There is no color. In the whole universe, wherever we looker, the only bit of color was back on earth. There, we could see the blue of the seas, the tans and browns of the land, and the white of the clouds. It was just another body, really, about four times bigger than the moon. But it held all the hope and all the life and all the things that the crew of the Apollo 8 knew and loved. People down here don't realize what they have. Maybe because not many of them have the opportunity to leave it and then come back again as we did.

Around the moon we behaved like any tourist when they get in a place they haven't seen before. We were excited and keyed up. We lost track of time. When we first broke out into lunar orbit it was "Oh, look at that", "Oh, look at this", and "What do we have here?".

It seemed a short flight to me, after two weeks on Gemini 7 and four days on Gemini 12. Possibly part of it was the difference in spacecraft. Apollo is comparatively big, although we still sit only about a foot apart from on another. There is room to get out of the couches and move around a bit. In fact, the temptation is to move too fast, to unstrap yourself and rush around before your body has become accustomed to weightlessness.

There is no real up and down in space, of course, and this became quite apparent on Apollo. The earth became so small that we lost the sense of "flying".

In the early stages of the flight the thing that impressed me most was the sight of the earth. I could see all of Florida and the Cape, but I had seen that before. This time, as I watched, the entire coast of the U.S. came into view, and the Caribbean, and Central America. I could see most of South America, almost to the South Pole. And there, as if I could put out my thumb and little finger to span the Atlantic Ocean, there was Western Africa. All in one view. We were higher than man had ever been before".

SENT E

slody As

L de acquistion - acceptational de L

grant's OH BE

elejua elatub

### VOCABULARY

	2. to become - llegar a ser.
NOUNS	3. to behave - comportar, -se.
1. body - cuerpo.	4. to come - venir.
2. clouds - nubes.	5. to come back - regresar.
3. coast - costa.	6. to describe - describir.
4. couches - sillones	in an Arient house of analytical lines are
5. crew - tripulación.	7. to excite - emocionar, -se.  8. to feel - sentir, -se.
6. earth - tierra.	9. to fly - volar.
7. finger - dedo.	10. to get - obtener.
8. flight - vuelo.	11. to get out - salir, -se.
9. foot - pie.	12. to hold - sostener.
10. hope - esperanza.	13. to impress - impresionar.
11. life - vida.	14. to know - saber.
12. moon - luna.	15. to leave - dejar.
13. opportunity - oportunidad.	16. to look - buscar, ver, mirar.
14. orbit - órbita.	17. to lose perder.
15. place - lugar.	18. to love - querer, amar.
16. sea, -s - mar, -es.	
17. sense - sentido.	11
18. sight - vista.	20. 00 100
19. spacecraft - nave-espacial.	A SALES WITH THE PROPERTY OF THE PARTY OF TH
20. span - período, lapso, espa-	
cio, distancia.	
21. stages - etapas.	
22. thing, -s - cosa, -s.	
23. thumb - dedo pulgar.	26. to watch - ver, observar.
24. tourist - turista.	OTHER WORDS
25. view - panorama, vista.	1. after - después.
26. weightlessness - sin peso, ingravidez	
ADJECTIVES	
1. bigger - más grande.	<ol> <li>apparent - aparente, evidente.</li> <li>before - antes.</li> </ol>
2. blue - azul.	d to shale
3. brown - café.	5. down - (hacia) abajo. 6. in fact - de hecho.
4. entire - entero.	The state of the s
5. fast - rápido.	HE THE PARTY OF THE PROPERTY OF THE PARTY OF
6. higher - más alto.	o. on boar a
7. small - pequeño.	9. quite - completamente, bas- tante.
8. short - corto.	
9. tan, -s - castaño, -s.	10. up there - allá arriba.  11. wherever - donde quiera.
10. whole - entero, todo.	
VERBS	12. yourself - tú mismo.
1, co accustom - acostumbrar, -se.	

	and the state of t		
77	to the Money and the	turbwing transitions also ding to	tive, etc
a consequence of the			
-	MINTENNESS OF THE		
FOR SER	Tavel disertor the apare	3	
************	Commence of the care of the ca	to the commence of the commenc	
200	As a property of the second of		
aparetta filosophia	and Aprilla and a second		**********
- TIME WELL	OF STREET, STREET, IDEA	ATTENDED TO THE PARTY OF THE PA	to very
	No. of the same of	man 20 A construction of the contract of the c	
TPRI.	nema.		
and the state of t	and the time of the state of th	Assertion of the second	
	The state of the s	· · · · · · · · · · · · · · · · · · ·	e de como de la
	a of Man		
		and the same of th	
	C. C		
	The state of the s	A water to the same of the sam	to to to
al Uma	hadu and a		america de
A	The state of the s		
and the same	The section with the contraction	and the second s	
And a state of the	and the second second	The state of the s	A SER IN C
	The state of the s		
- suderables	Topland Tracelle was a series of the second		
700	al sent year	The second secon	
	to General Paris, Company	Control of State of S	
a. Imi	and the same of th	the second second second second	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
200	The second second second second second	and if the same of the same is the same of	to the second of
10000			THE PERSON NAMED IN
- American	200	The day he had never been be	
	AND THE TARREST OF THE PARTY.		************

-4-

-5-

	ne Moon" A 2 O V	BULARY BRIDGE SH	L. L.I. Franklaid to Spenias
THUTWH		2. to be 20186	LAGOR E SEL
		S. W beliase	
vientile	3.4825	- 6 TO 0202	1 2 di
		2 St. In Nove Deck	- PERSON
Agents Nicht	The state of the s	the Name of Street, and the St	
			James James Comment
		A to Ref.	
		THE RESERVE	
	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		A STATE OF THE STA
	and the second s	as Jack	2 - V
	-		
	A		
	A CONTRACTOR OF THE PARTY OF TH		
		* 12.2	
Bearing to the State of the Sta			17 E
	1 1 1 1 1 1 1 1 1		
***	1 / / /		and the second second second second
A ESSENTIAL PROPERTY.			
		1	• • •
	1.11		
-	The state of the s		
			· · · · · · · · · · · · · · · · · · ·
. Sale			
S. Albert			
and the state of t	Contract to the second	and the second s	and the second s

## COMPREHENSION EXERCISES ) salat to (T) sure strill A 1 1

	I. 1.2. Briefly answer in Spanish the following questions according to the reading: "First to the Moon".
	1. What spacecraft was the first to be put in lunar orbit?
	2. How does Lovell describe the universe?  3. What was the thing that most impressed the astronaut in the first stages of flight?
1	4. How many weeks were spent on the Gemini 7 voyage?
	5. How were the astronauts when they orbited around the moon?
	I. 1.3. Choose the corresponding letter to the correct answer and place it in the parenthesis.
	<ol> <li>Where did Lovell find a little bit of color in the universe? ( )</li> <li>a) Looking at Mars.</li> <li>b) Looking at the moon.</li> <li>c) Looking at the earth.</li> </ol>
	2. How does Lovell describe the earth?()  a) Like a body smaller than the moon. b) Like a body of white and black color. c) Like a body of colors: blue, tan, brown and white.  3. The trip seemed to the astronaut() a) Very long. b) Very short. c) Like any other.
4	<ul> <li>4. Compared to Gemini 7 and Gemini 12, the Apollo 8 spacecraft was: ( )</li> <li>a) The same size.</li> <li>b) Bigger.</li> <li>c) Smaller.</li> </ul>
	5. On this ocassion what did Lovell describe, that he had never seen before? ( ) a) Florida and the Cape. b) Almost all of South America up to the South Pole and Western Africa. c) The Atlantic Ocean.

I. :	Write true (T) or false (F) in the following sentences.
1.	he Apollo 8 trip seemed to Astronaut Lovell very long.
	he Apollo 8 spacecraft was the first to orbit the moon.
	emini 7 and Gemini 12 are relatively small compared to the Apollo 8.
	ovell saw the universe full of color.
5.	he Earth was seen by Lovell like a black and white world.
I.	Relate both columns inserting the number that corresponds.
1. 2. 3.	pacecraft ( ) The whole system of existing things, including the earth and, outer space.
<b>4</b> . <b>5</b> .	Carth ( ) Land along the sea; sea shore.
6. 7.	Orbit ( ) Vehicle that can travel in outer space.
	eas  ( ) One who goes on a tour for rest, recreation, sightseeing.
. 0.	( ) The planet in which we live.

at Life a bider smaller than the wall is

Jak vale in TOTAL SELECTION

of Like a body of white and there mark.

#### I. 2 GRAMMATICAL SUMMARY.

#### A) VERBOS REGULARES E IRREGULARES.

• En inglés todos los verbos se enuncian siempre en forma simple precedidos de la partícula TO, característica del infinitivo y equivalente en nuestro idioma a las terminaciones: -ar, -er, -ir-sq lob osso le ne Abnegastro locure na alonslaviane te

TO TALK	le res	hablar	TO EAT	0 <u>1</u>	comer
TO SMILE	=	sonreir	TO BEGIN	=	comenzar

ciones de nucetra continuación y en el caso del participio. En corresponde a las ter-

• La conjugación verbal en la lengua inglesa es bastante sencilla. En el presente simple de indicativo, todos los verbos agregan una "s" en las terceras personas del singular. En las demás personas, permanece el infinitivo simple del verbo (sin partícula TO TRAVEL = viale TRAVELLED = viale TRAVELLED = viale (OT

		PRESENT	TENSE:
		TO TALK	TO EAT
DEFEND	TI WELL	TALK = hablo	EAT = como
	you	TALK = hablas	EAT = comes
	we	TALK = hablamos	EAT = comemos
-ESTUTION:	they	TALK = hablan	EAT = comen
	he	TALKS = él habla	EATS = él come
	she	TALKS = ella habla	EATS = ella come
,008	it it	TALKS = habla	EATS = come
		TO SMILE	TO BEGIN
e oios	e slerskir	SMILE = sonrio	BEGIN = comienzo
2 7 7 7	you	SMILE = sonries	BEGIN = comienzas
	we	SMILE = sonreimos	BEGIN = comenzamos
	they	SMILE = sonrien	BEGIN = comienzan
	he	SMILES = él sonrie	BEGINS = él comienza
	she	SMILES = ella sonrie	BEGINS = ella comienza
	it	SMILES = sonrie	BEGINS = comienza

examples:

1.	You	talk of	History.	
-		and the same of th		

Tú hablas de Historia. =

2.	Jane	eats	apple	pie.

Jane come pastel de manzana.

3. She smiles at you.

Ella te sonrie.

4. I begin with high school this year.

Comienzo el bachillerato este año.

• Los verbos en inglés pueden ser regulares o irregulares, no en cuanto a su conjugación, que es igual para todos, sino en cuanto a la formación del pasado y del participio.

Los verbos regulares son aquellos que forman su pasado y su participio añadiendo la terminación -ED al infinitivo simple, para todas las personas. Debemos recordar que su equivalencia en español corresponde, en el caso del pasado, a todas las terminaciones de nuestra conjugación y en el caso del participio, -ED corresponde a las terminaciones -ado, -ido, -to, -so, -cho.

	INFINITIVE	PAST	PARTICIPLE
No.		LEARNED = aprendí DESCRIBED = desbribí	WORKED = trabajado LEARNED = aprendido DESCRIBED = descrito TRAVELLED = viajado

#### examples:

1.	We worked	with your	teacher
	yesterday.		

 You learned all of the units last year.

3. She travelled to Paris last month.

4. The students described Apollo 8 as a spacecraft.

Nosotros trabajamos con tu maestro ayer.

Ustedes aprendieron todas la unidades el año pasado.

Ella viajó a París el mes pasado.

Los alumnos describieron a Apolo 8 como nave especial.

3. She smiles at your

4 . I begin with high school this year.

• Los verbos irregulares forman su pasado y su participio con diversas terminaciones derivadas del infinitivo que es necesario memorizar o recurrir al diccionario para manejarlas, ya que no existe regla específica para su formación.

INFINITIVE			PAST			PARTICIPLE		
TO EAT		comer	ATE	=	comí	EATEN	=	comido
TO BEGIN	=	comenzar	BEGAN	=	comencé	BEGUN	==	comenzado
TO SPEAK	=	hablar	SPOKE	=	hablé	SPOKEN		hablado
TO WRITE	=	escribir	WROTE	=	escribí	WRITTEN		

#### examples

1.	Diana ate too much last night.	Diana comió demasiado anoche.			
2.	Reagan began negotiations with China yesterday.	Reagan comenzó ayer las negociaciones con China.			
3.	Gerard and Ernest spoke about politics.	Gerardo y Ernesto hablaron de política.			
4.	You wrote a book last year.	Tú escribiste un libro el año pasado.			