

DOCUMENT RESUME

ED 222 373

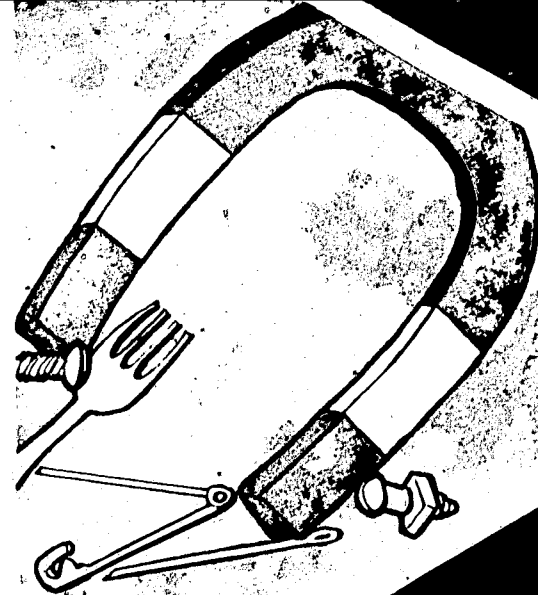
SE 039 465

AUTHOR Raposo, Lucilia  
 TITLE Ciências 1. (Science 1). [Student's Workbook].  
 INSTITUTION National Portuguese Materials Development Center,  
 Providence, RI.  
 SPONS AGENCY Department of Education, Washington, DC.  
 REPORT NO ISBN-0-89857-168-5.  
 PUB DATE Jun 80  
 NOTE 202p.; For related documents, see SE 039 460-461 and  
 SE 039 463-466.  
 AVAILABLE FROM Evaluation, Dissemination and Assessment Center  
 (EDAC), Lesley College, 49 Washington Avenue,  
 Cambridge, MA 02140 (\$4.50).  
 LANGUAGE Portuguese  
 EDRS PRICE MF01 Plus Postage. PC Not Available from EDRS.  
 DESCRIPTORS Bilingual Education; \*Biological Sciences; Elementary  
 Education; \*Elementary School Science; Grade 1; Human  
 Body; Matter; \*Physical Sciences; \*Science  
 Activities; Science Education; Scientific Concepts;  
 Weather

ABSTRACT

          Ciências 1 is the first in a series of science books  
 designed for elementary Portuguese-speaking students. The book  
 contains five sections divided into 43 lessons. The five sections are  
 (1) Matter, (2) The Human Body, (3) Weather, (4) Solids, Liquids, and  
 Gases, and (5) Living Things. Pictorial presentations and picture  
 exercises are included for each concept. Pages in the book (available  
 from the publisher) are perforated so they can be easily removed.  
 (RH)

\*\*\*\*\*  
 \* Reproductions supplied by EDRS are the best that can be made \*  
 \* from the original document. \*  
 \*\*\*\*\*

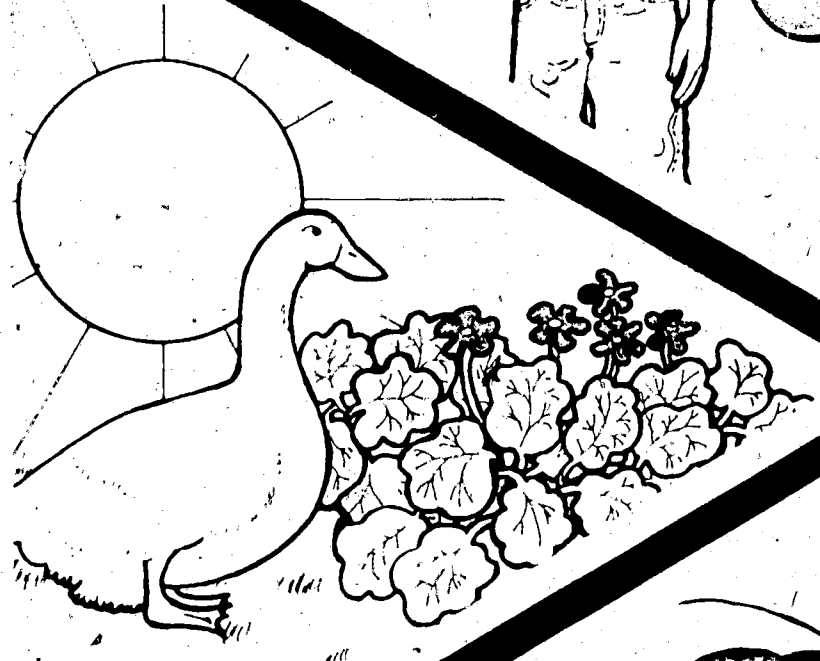
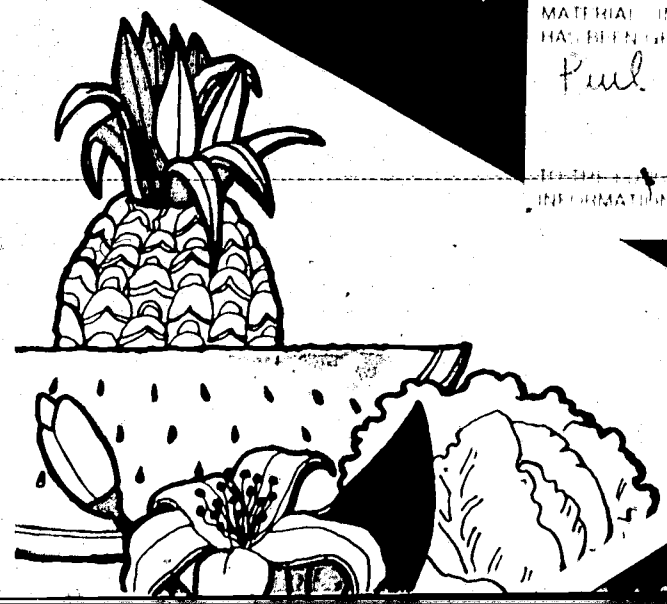


# Ciências 1

PERMISSION TO REPRODUCE THIS  
MATERIAL IN MICROFICHE ONLY  
HAS BEEN GRANTED BY

*Paul Liberty*

EDUCATIONAL RESOURCES  
INFORMATION CENTER (ERIC)



039465

Developed by:



**National Portuguese Materials  
Development Center**

Center for Portuguese and Brazilian Studies  
Brown University, Providence, Rhode Island 02912

# Ciências 1

Lucilia Raposo

*Ilustração: Cheryl Kirk  
Preparação gráfica: Teófilo Ramos  
Montagem gráfica: Nancy Beck*



Published by National Assessment and Dissemination Center, ESA  
Title VII Lesley College, 49 Washington Avenue, Cambridge,  
Massachusetts 02140

International Standard Book Number 0-89857-168-5

Published June 1980

Printed in the United States of America

The activity which is the subject of this publication was supported in whole or part by the U.S. Department of Education. However, the opinions expressed herein do not necessarily reflect the position or policy of the Department of Education, and no official endorsement by the Department of Education should be inferred.

The National Assessment and Dissemination Center for Bilingual Education is a special ESEA, Title VII project funded by the U.S. Department of Education through Lesley College, Cambridge, Mass. and the Fall River Public School System.

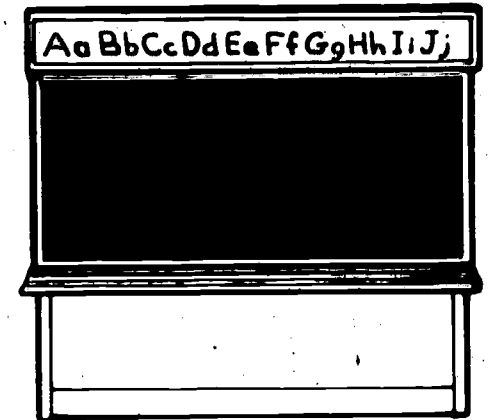
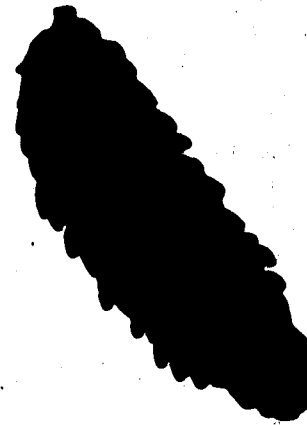
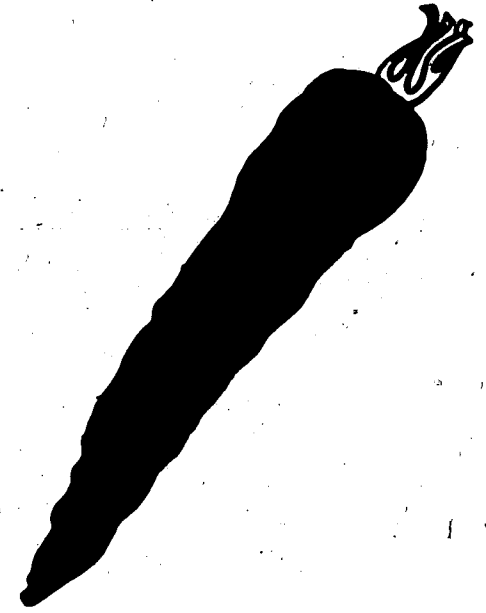
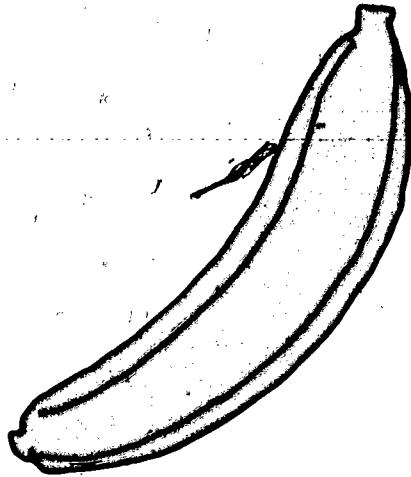
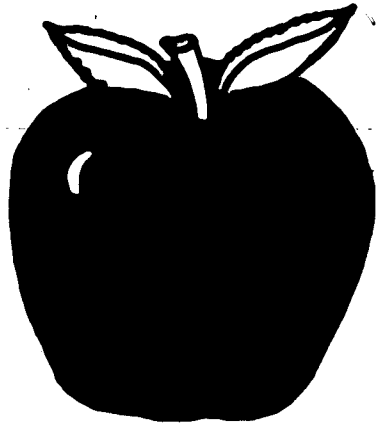
This publication was developed and printed with funds provided by Title VII of the Elementary and Secondary Education Act of 1965 as amended.

# Índice

	Página		Página
Cores.....	1	O Ano.....	55
Formas.....	3	Estações do Ano.....	56
Sólidos Geométricos.....	5	Condições do Tempo.....	57
Tamanho.....	7		
Comprimento.....	9	Sólidos, Líquidos e Gases.....	59
Altura.....	11	A Matéria Tem Propriedades Diferentes.....	61
Grupos.....	13	A Água.....	62
Pesado e Leve.....	15	O Ar.....	65
Consistência.....	17		
Distância.....	19	Seres Vivos e Seres sem Vida.....	67
Localização.....	21	Seres Vivos: Animais e Plantas.....	69
Medição de Comprimento.....	27	Nascimento e Crescimento de uma Planta.....	71
Medição de Volume.....	28	Partes das Plantas.....	73
		Frutos e Hortaliças.....	75
O Meu Corpo.....	29	Sementes.....	77
Os Sentidos.....	31		
Cuidados com a Saúde.....	33	Animais e Seus Ambientes.....	79
Grupos Alimentares.....	35	Animais Domésticos.....	81
A Origem dos Alimentos.....	37	Animais Selvagens.....	83
Higiene.....	39	Animais Úteis.....	85
Vestir de Acordo com o Tempo.....	41	O Corpo dos Animais Está Protegido por.....	87
Regras de Segurança.....	45	Movimentos dos Animais.....	89
É Perigoso.....	47		
		Movimento.....	91
O Sol.....	49	A Terra Atrai.....	93
Tudo Muda com o Tempo.....	51	Os Ímans.....	94
Um dia.....	52	Máquinas.....	95
A semana.....	53	Máquinas Simples.....	96
Os Meses.....	54	As Rodas.....	97

# Cores

Os objectos têm cores diferentes.



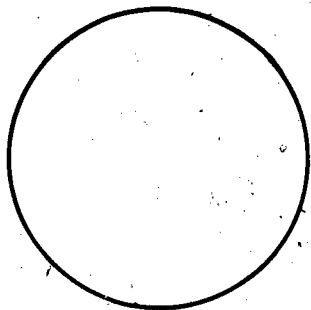


2

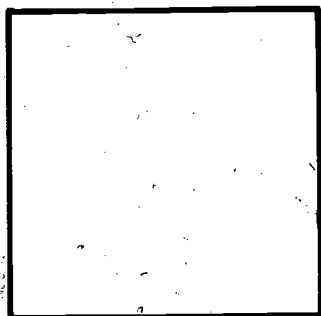


# Formas

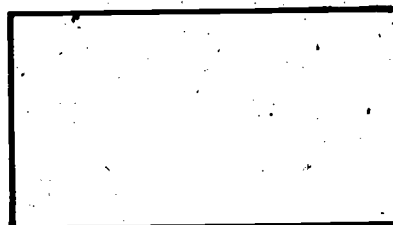
Os objectos têm formas diferentes.



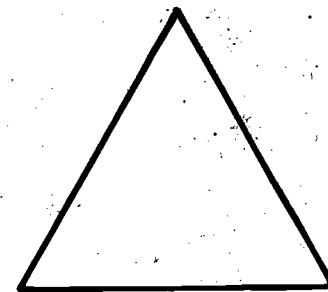
círculo



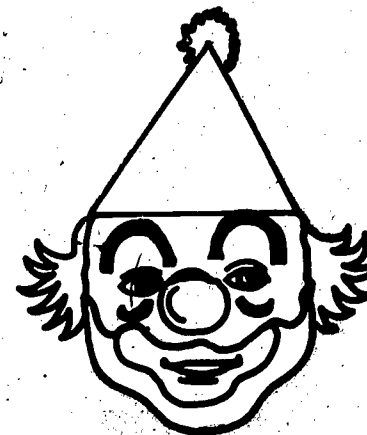
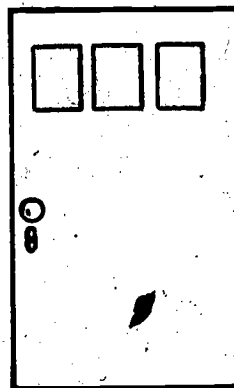
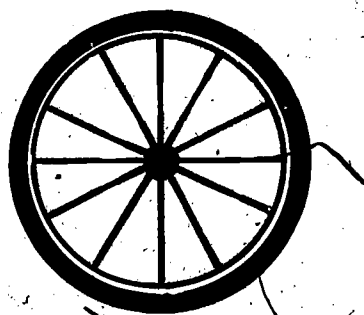
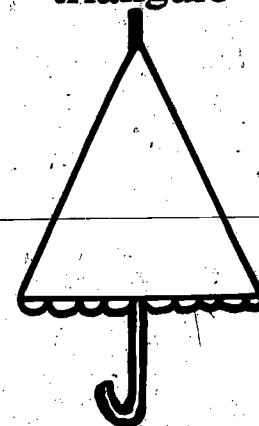
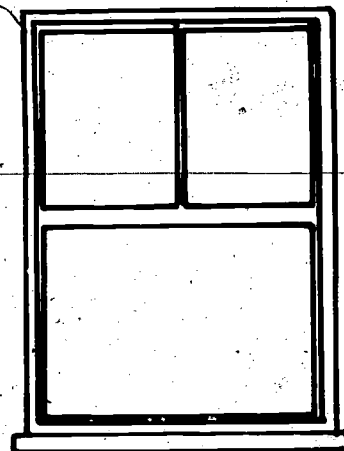
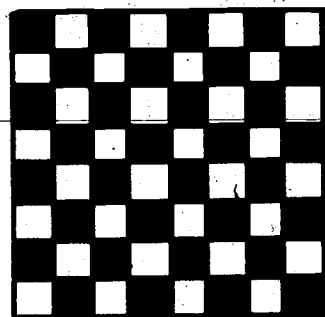
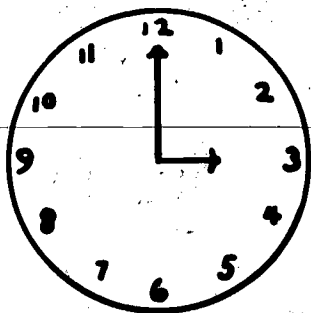
quadrado

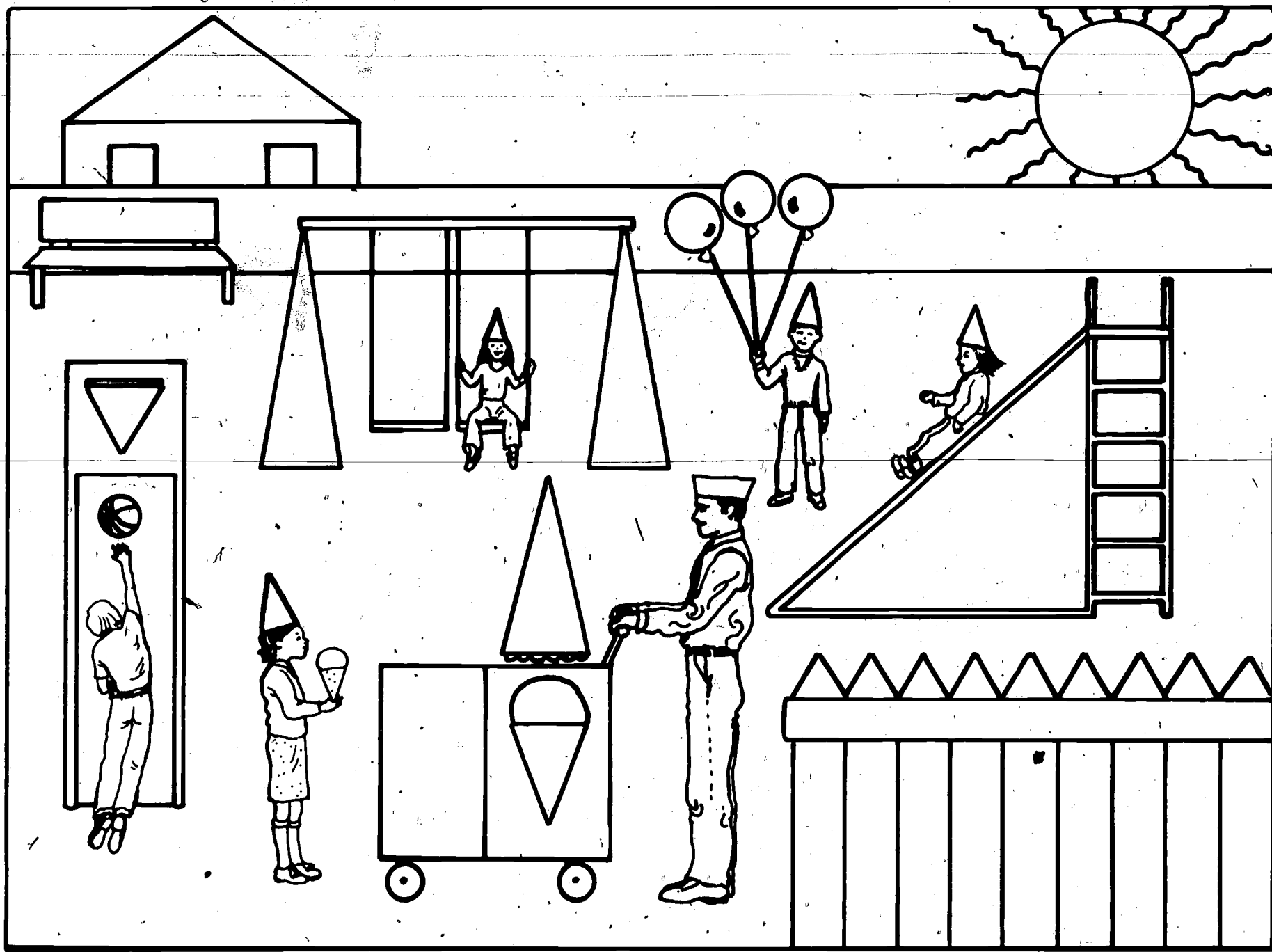


rectângulo



triângulo





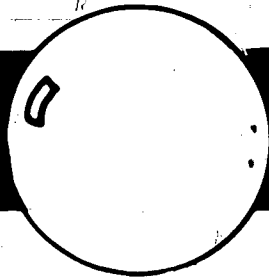
4

**ERIC** Colorir os círculos de azul, os quadrados de vermelho, os rectângulos de amarelo  
os triângulos de verde.

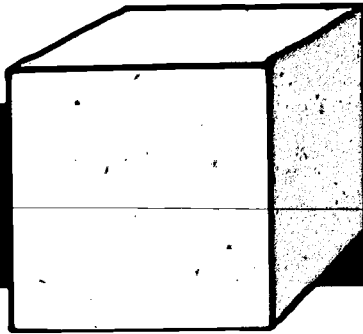
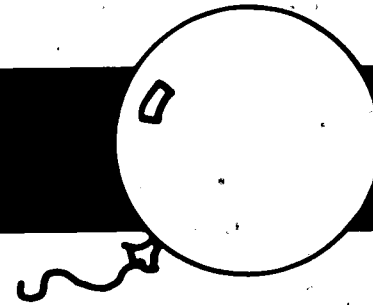
10

10

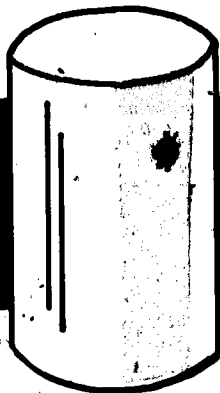
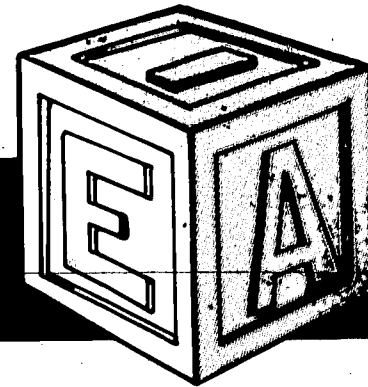
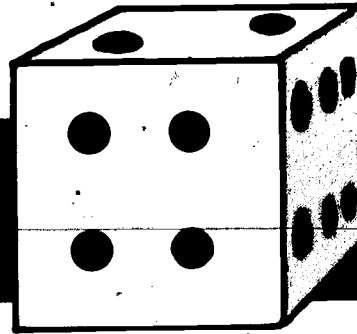
# Sólidos Geométricos



esfera

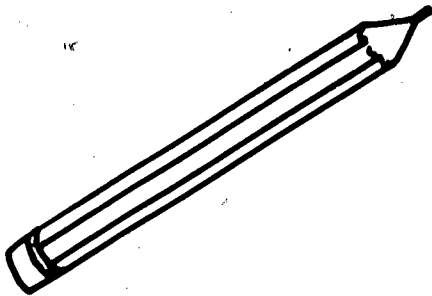
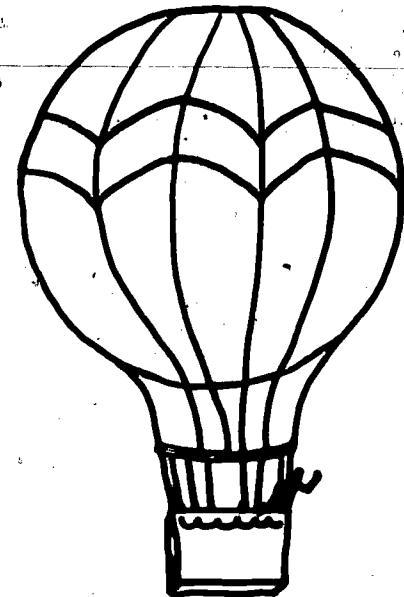
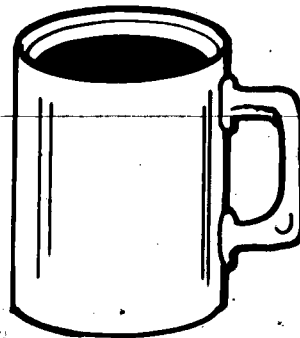
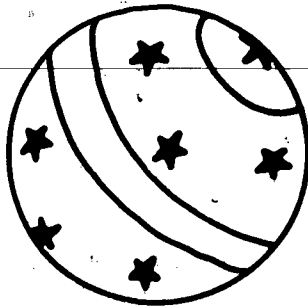
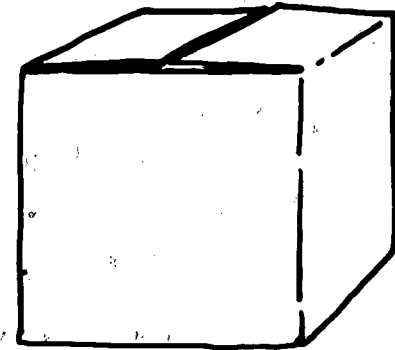


cubo

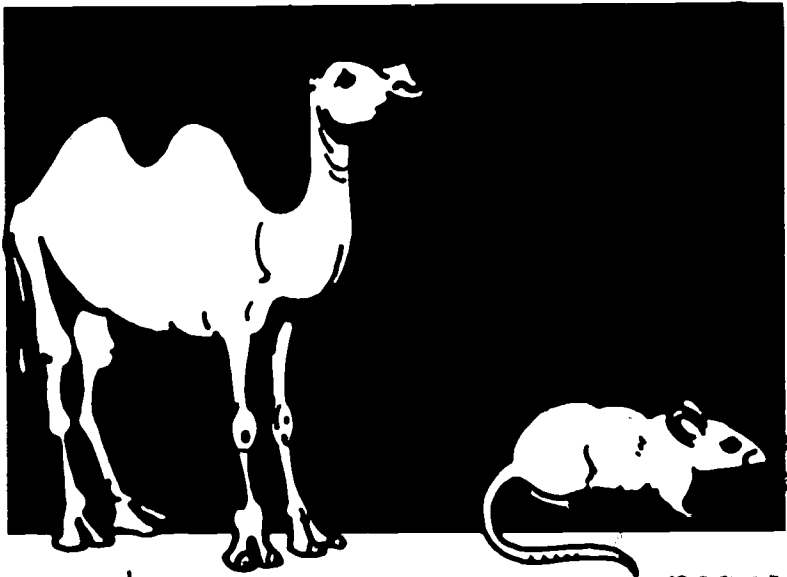


cilindro



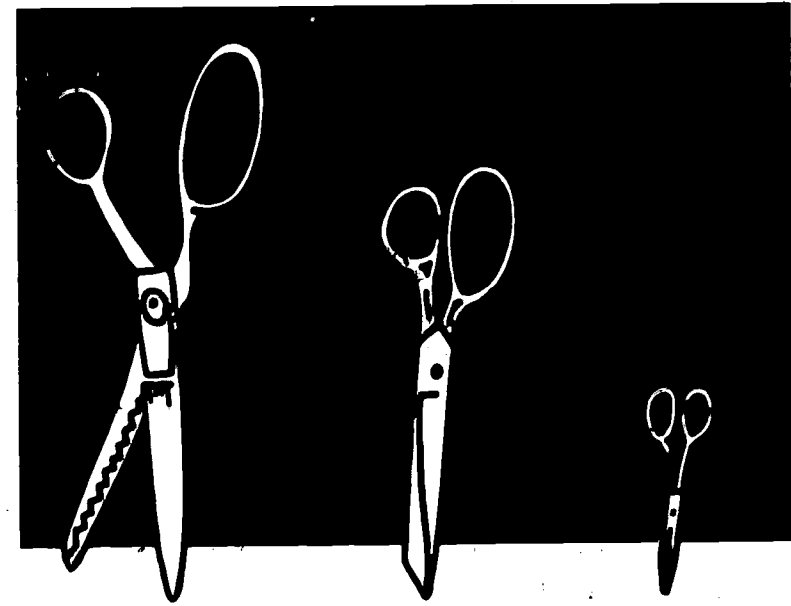
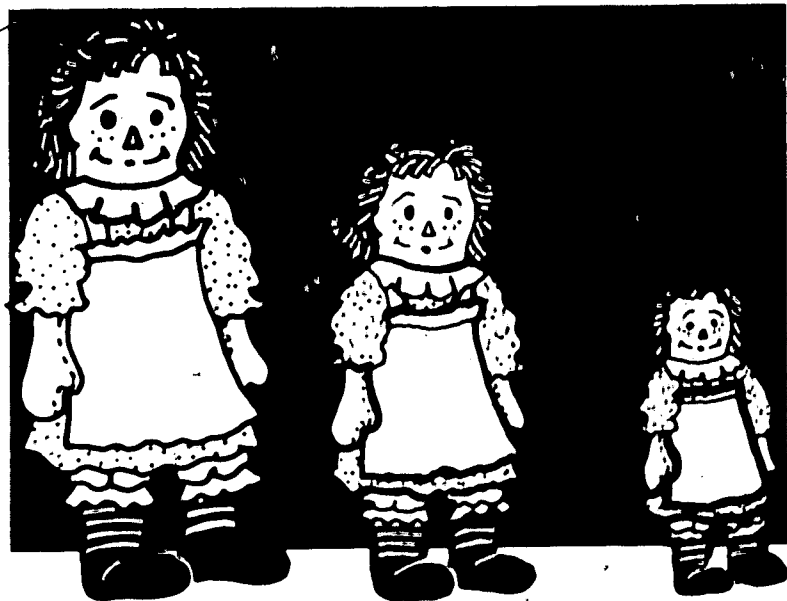
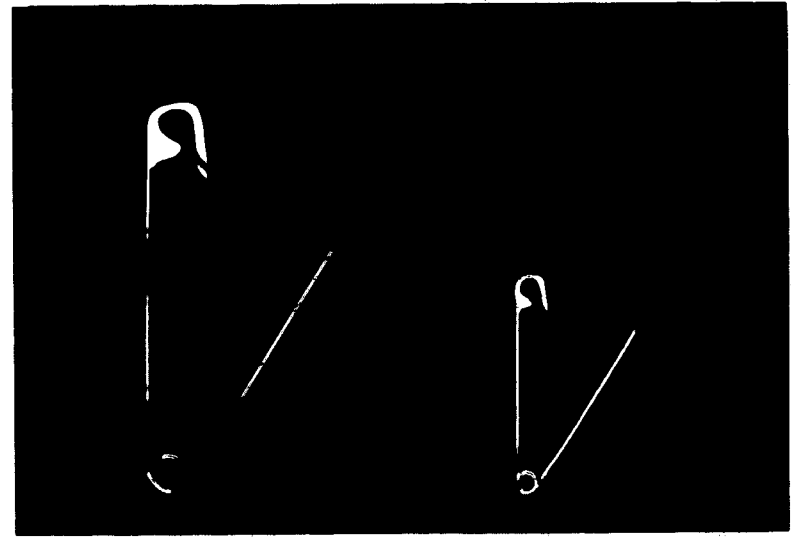


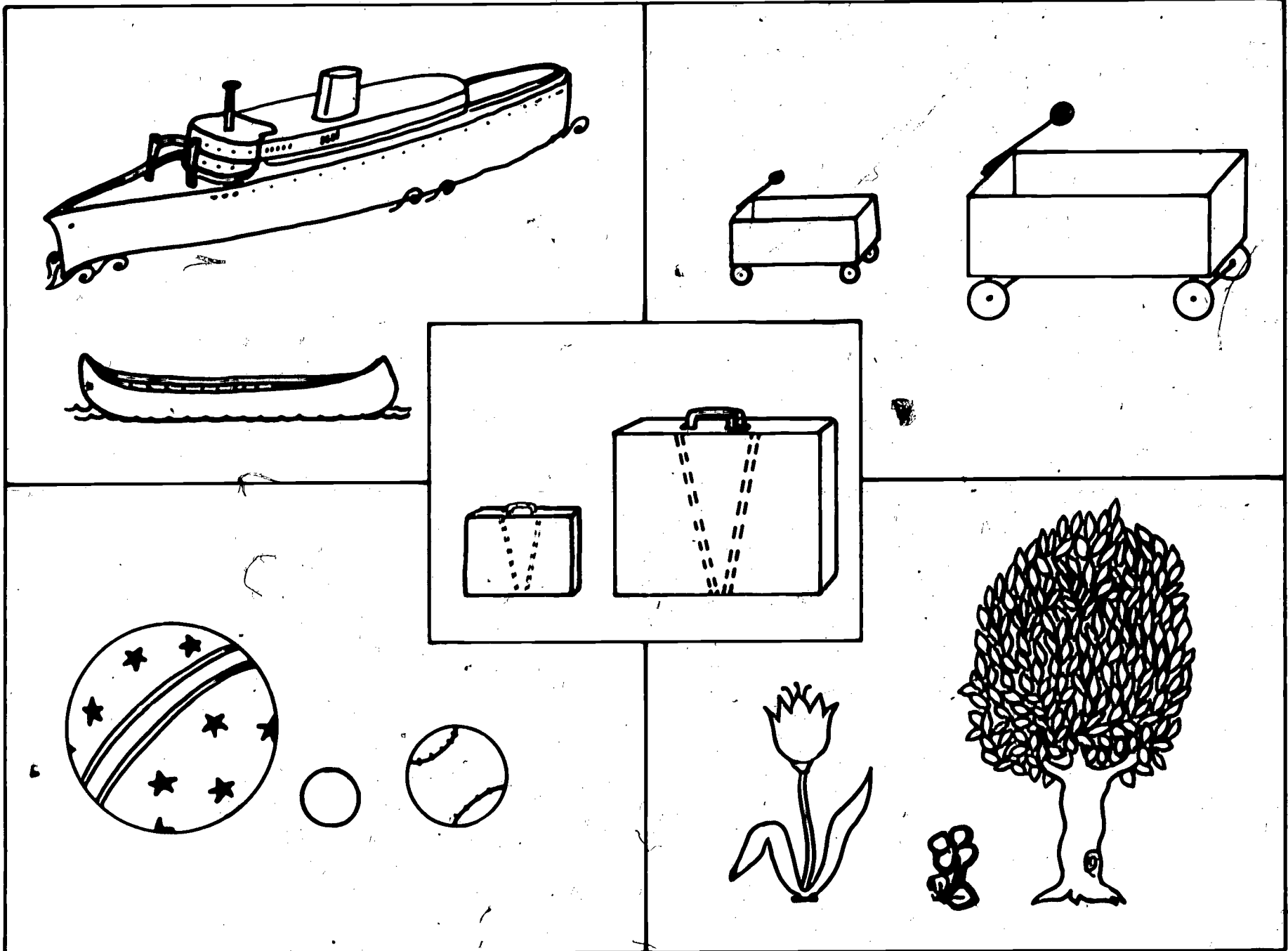
# Tamanho



grande

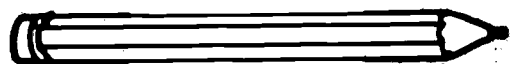
pequeno



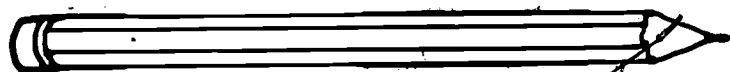


Assinalar com um X os objectos maiores e circundar os mais pequenos.

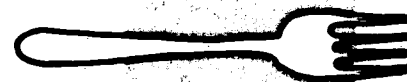
# Comprimento



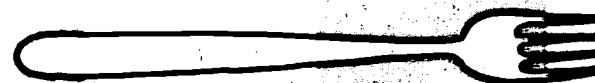
curto



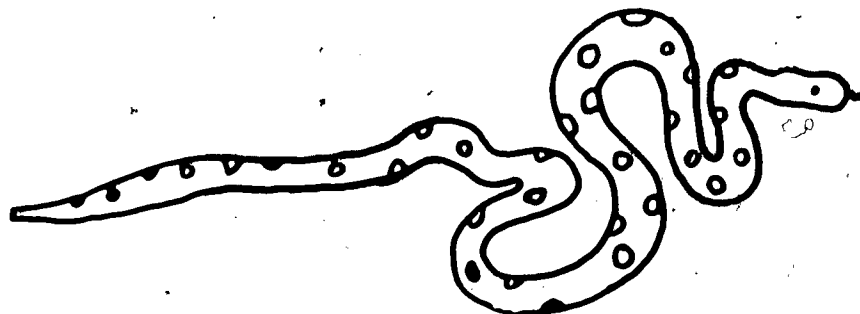
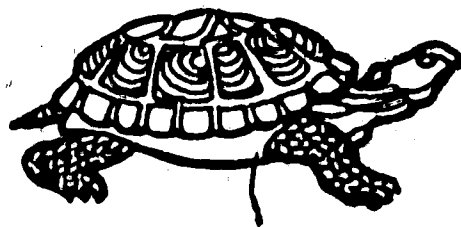
comprido

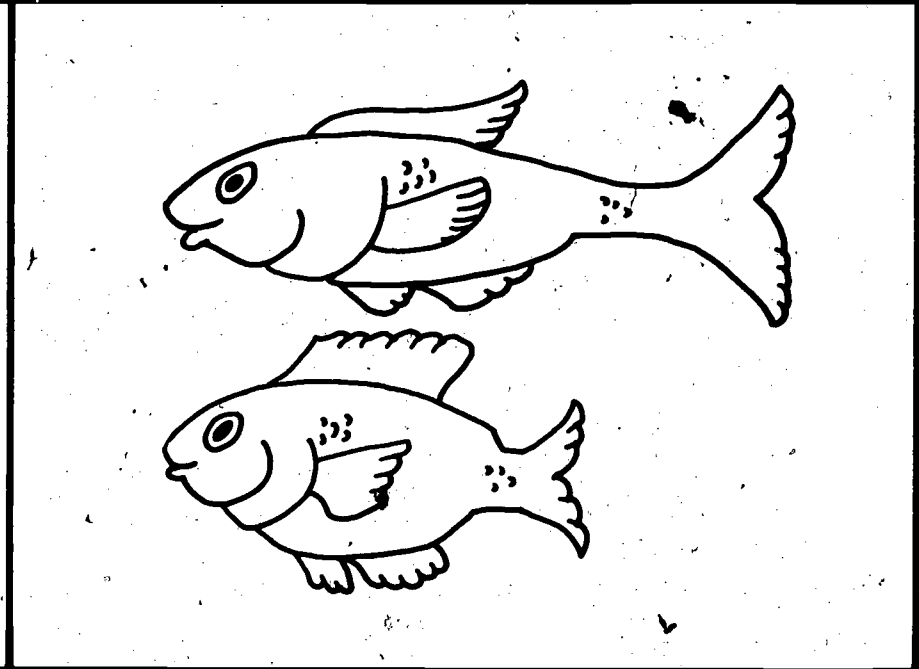
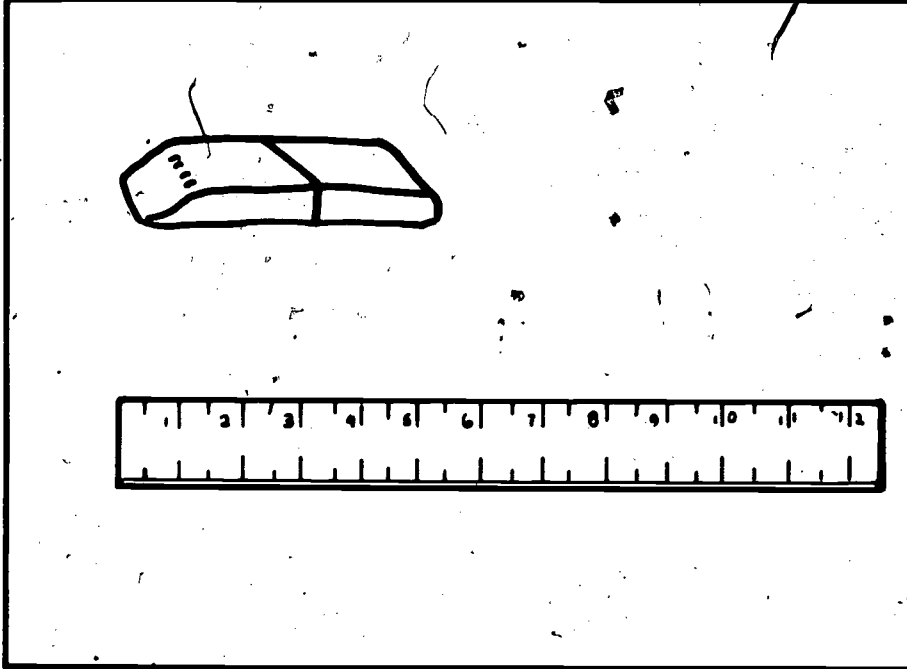
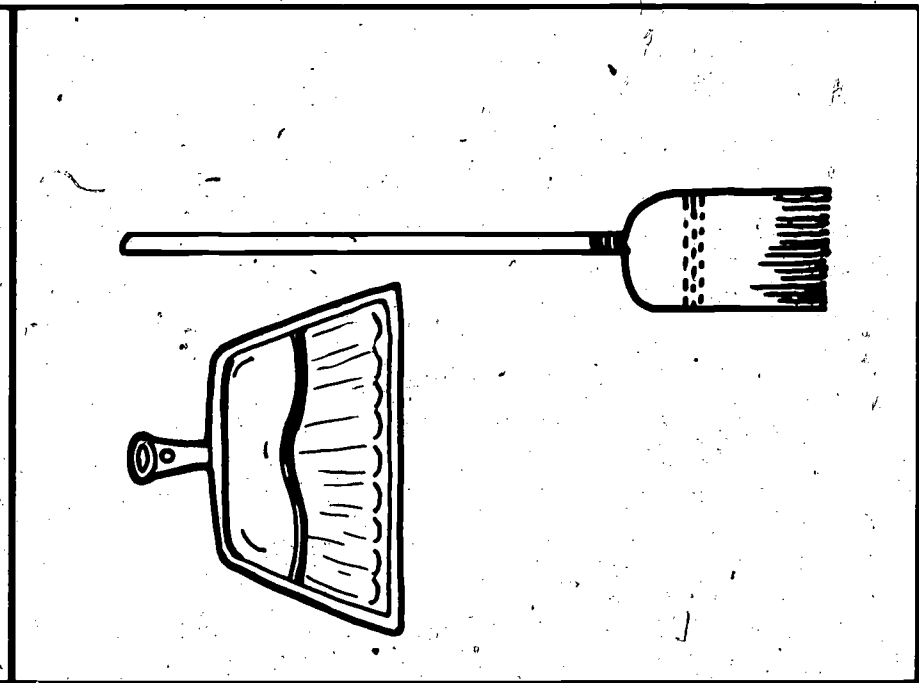
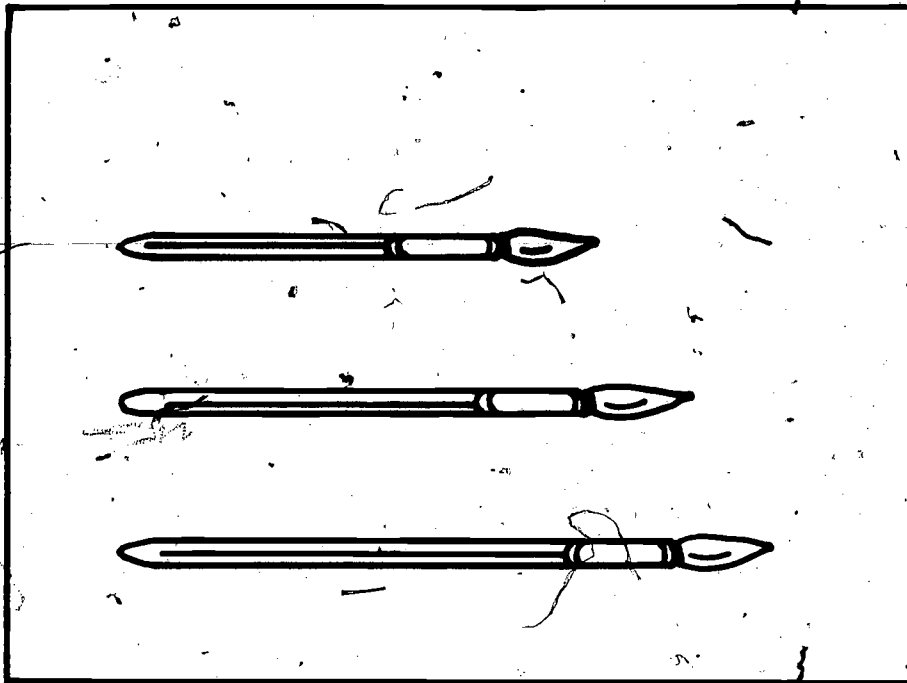


mais curto



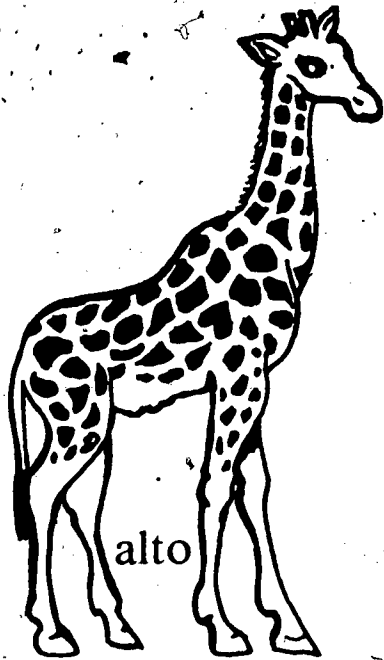
mais comprido



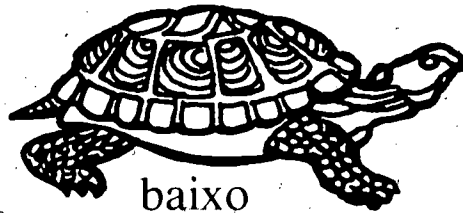




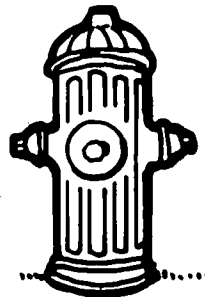
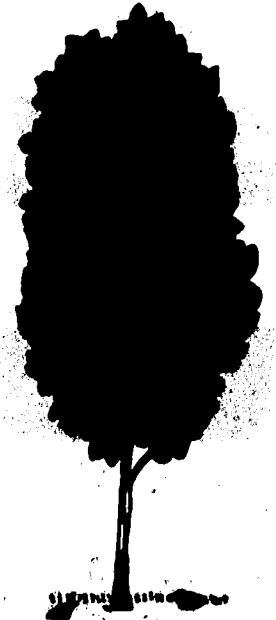
# Altura



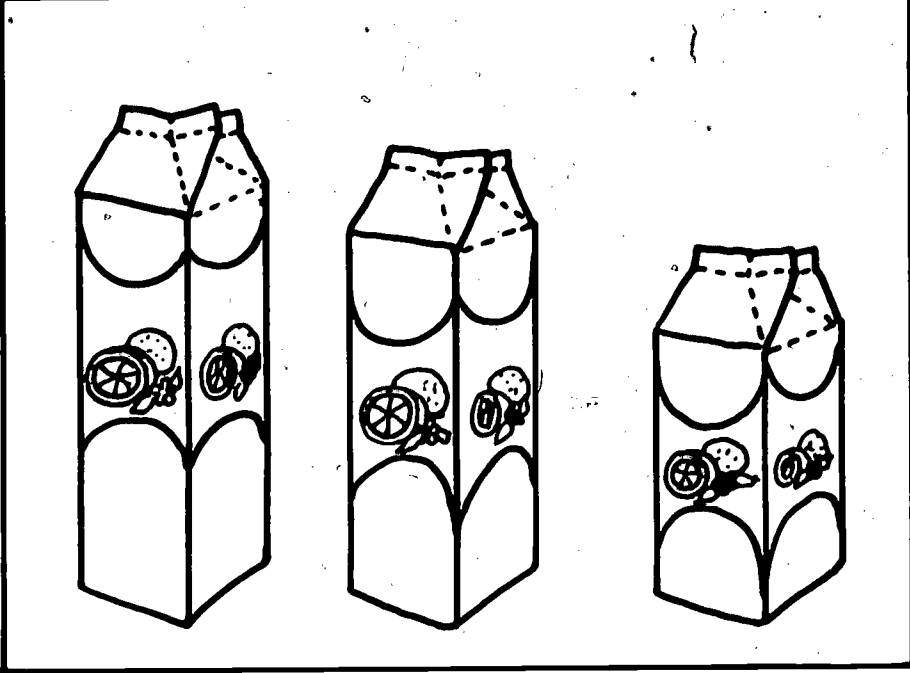
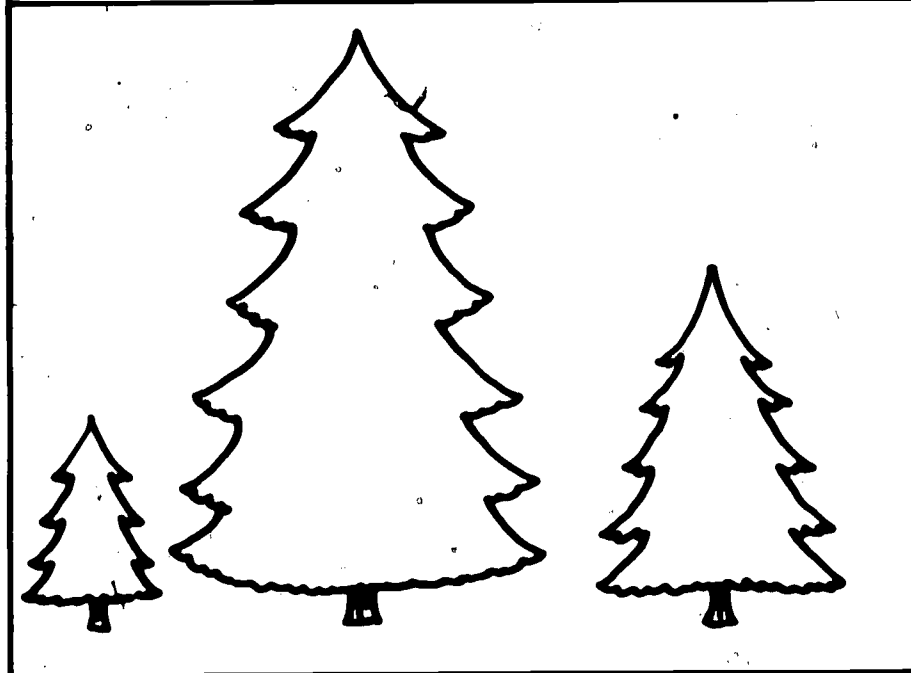
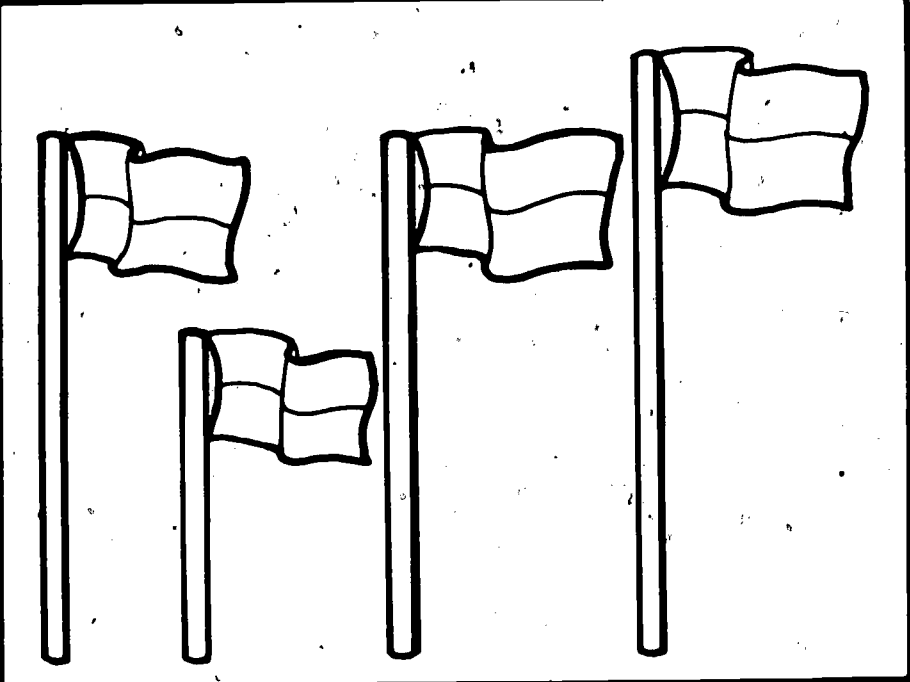
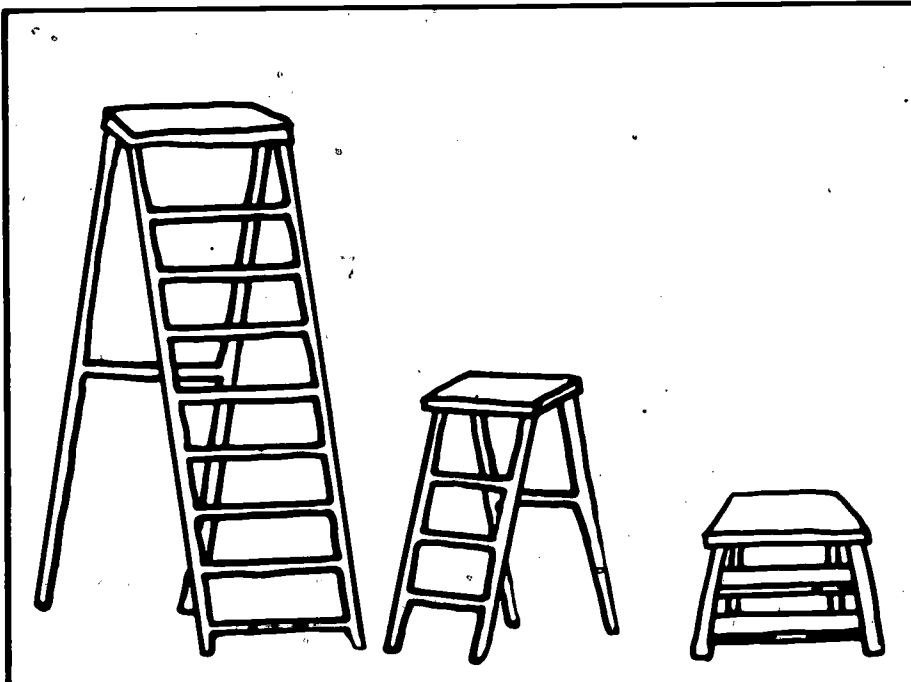
alto



baixo



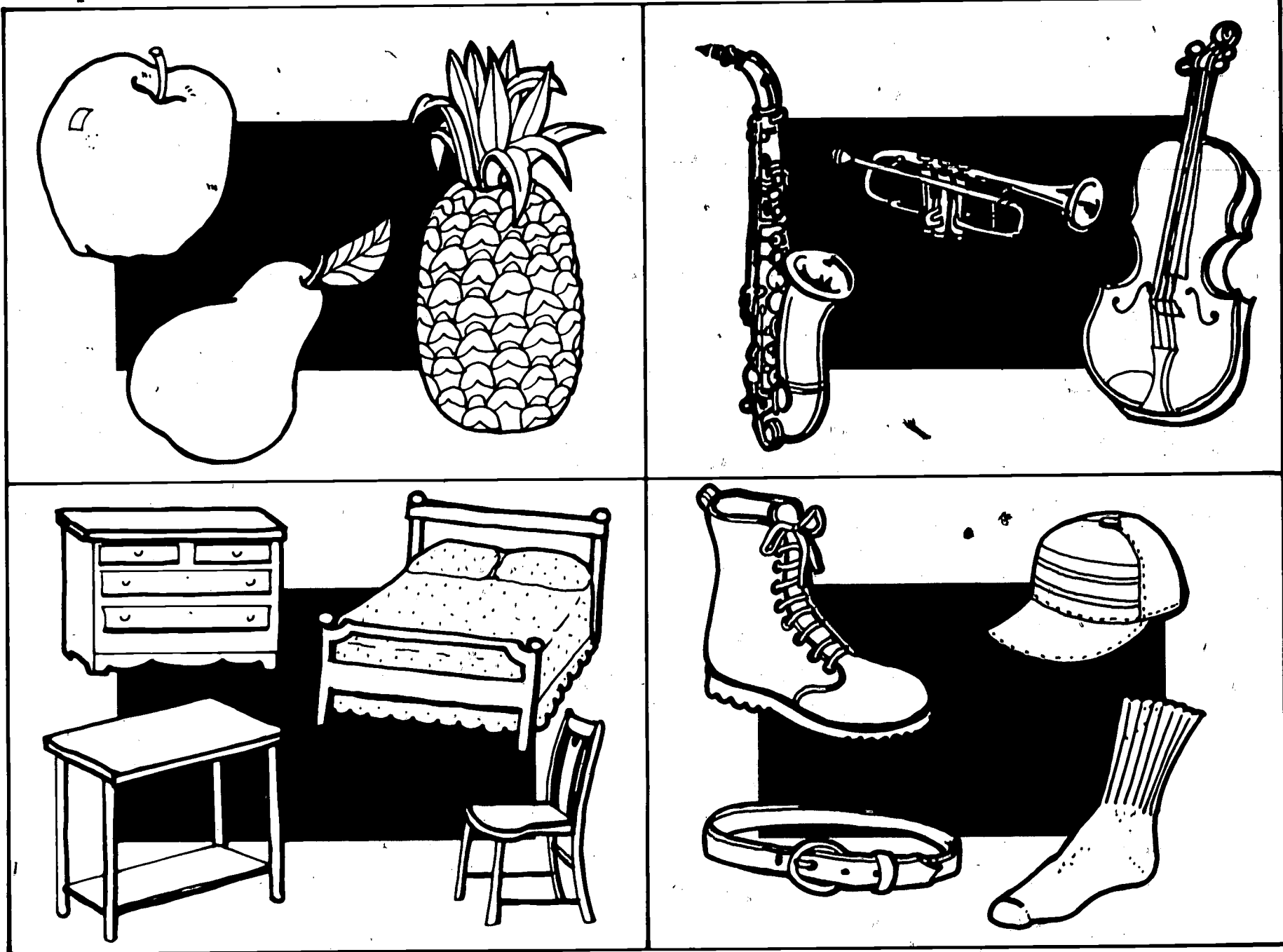
da mesma altura

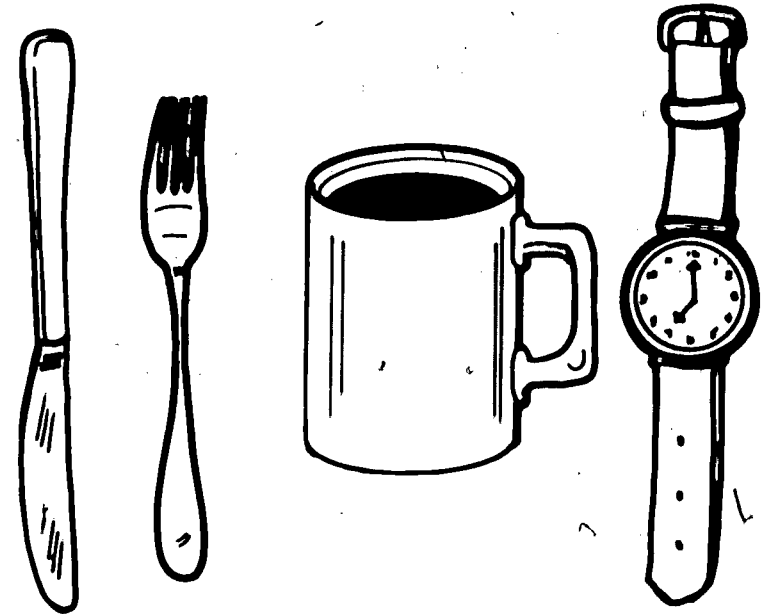
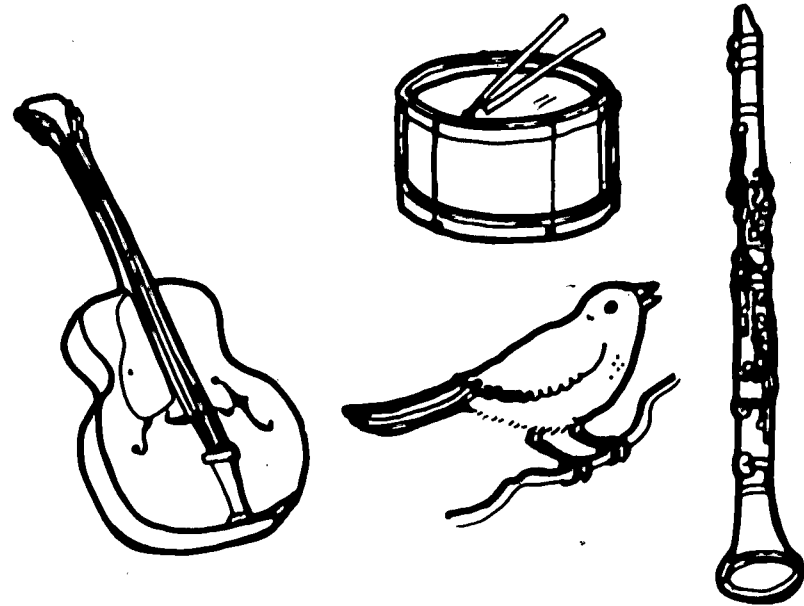
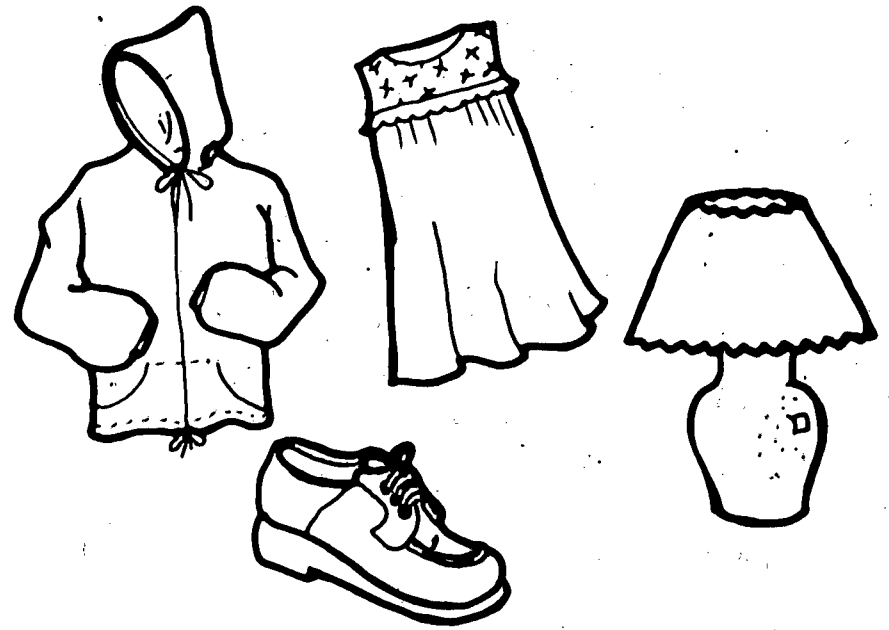


12

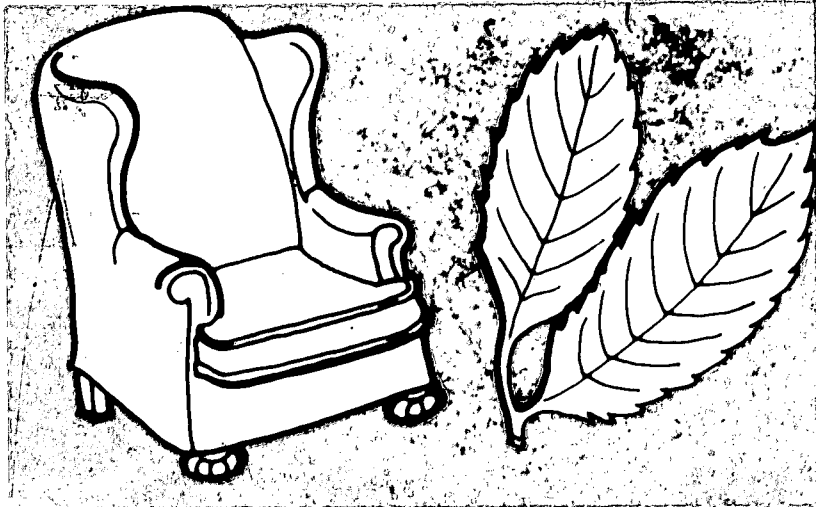
Em cada grupo assinalar com um 0 o objecto mais baixo, com um X o mais alto e com um V os da mesma altura.

# Grupos



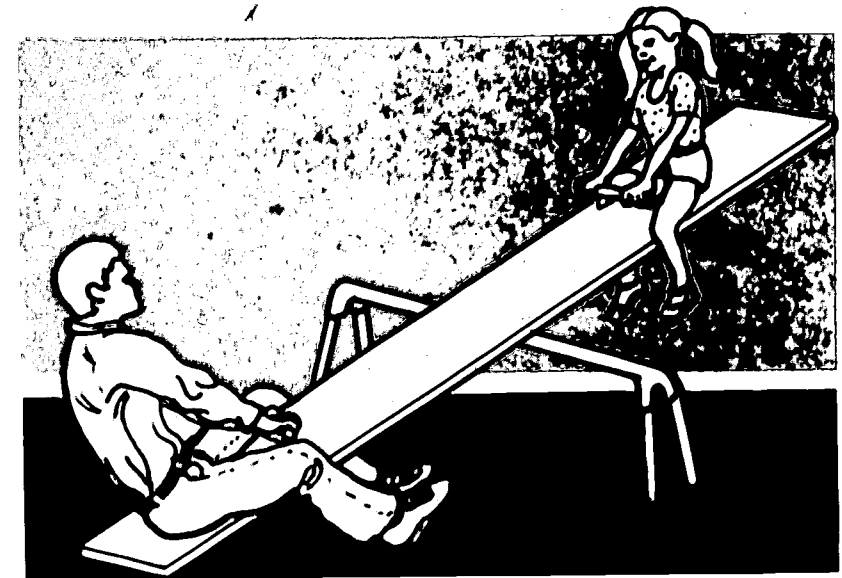
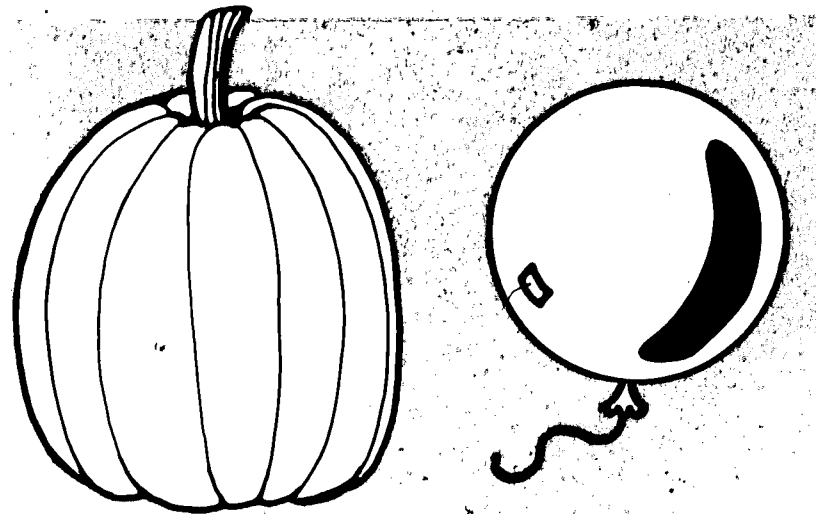
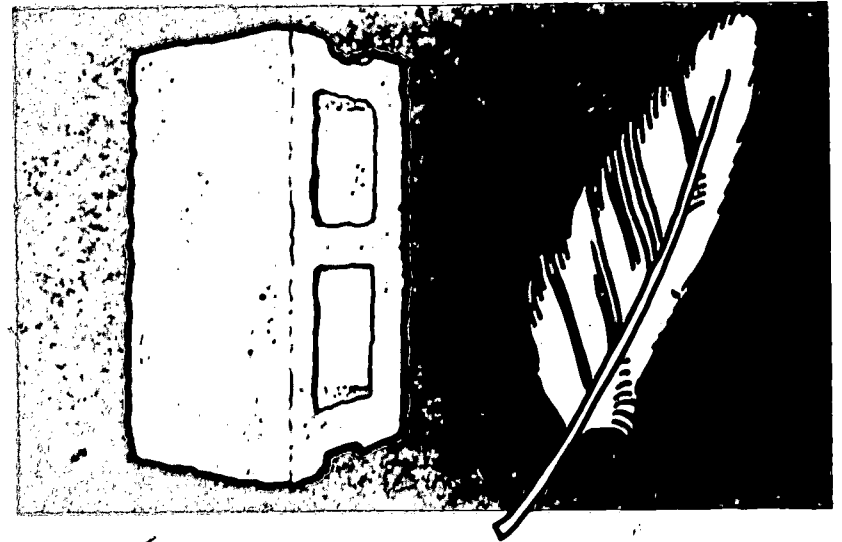


# Pesado e Leve



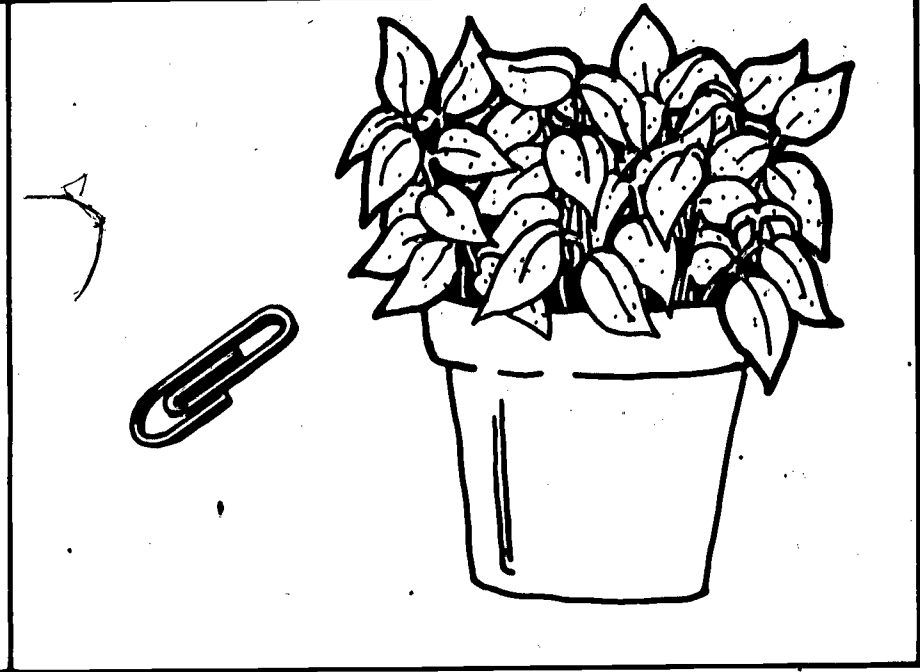
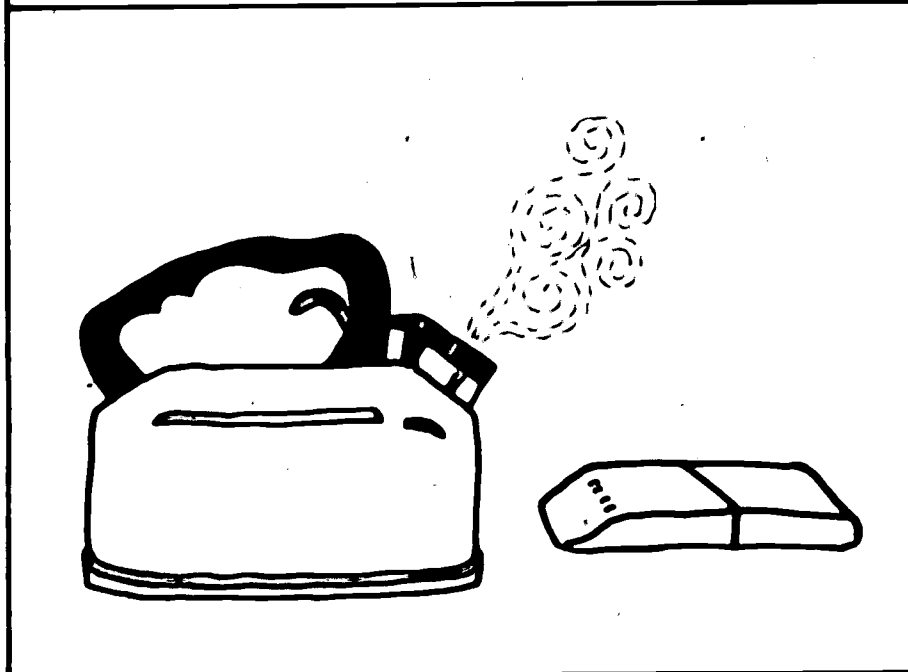
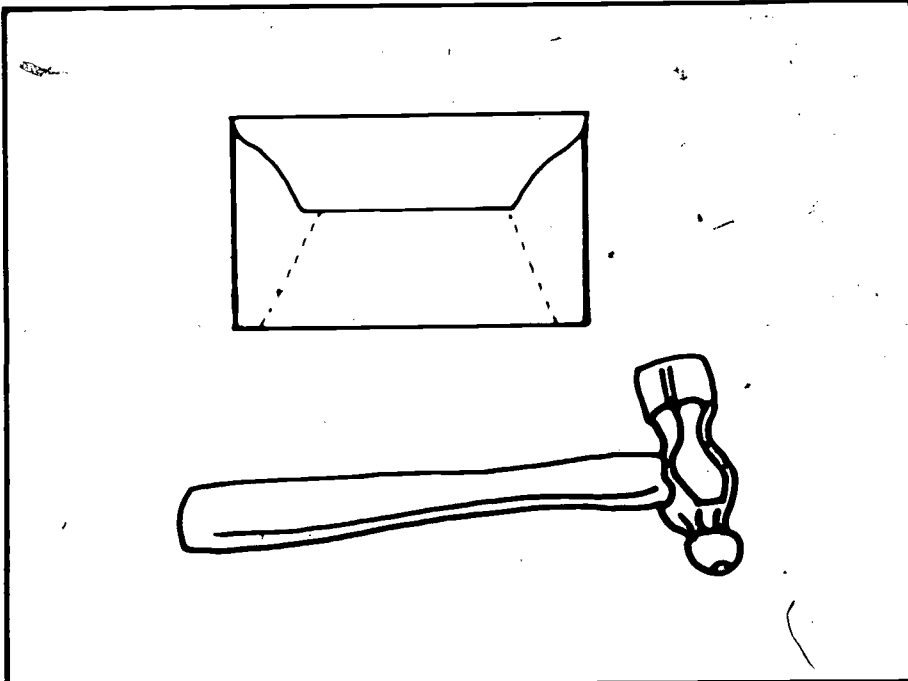
pesado

leve

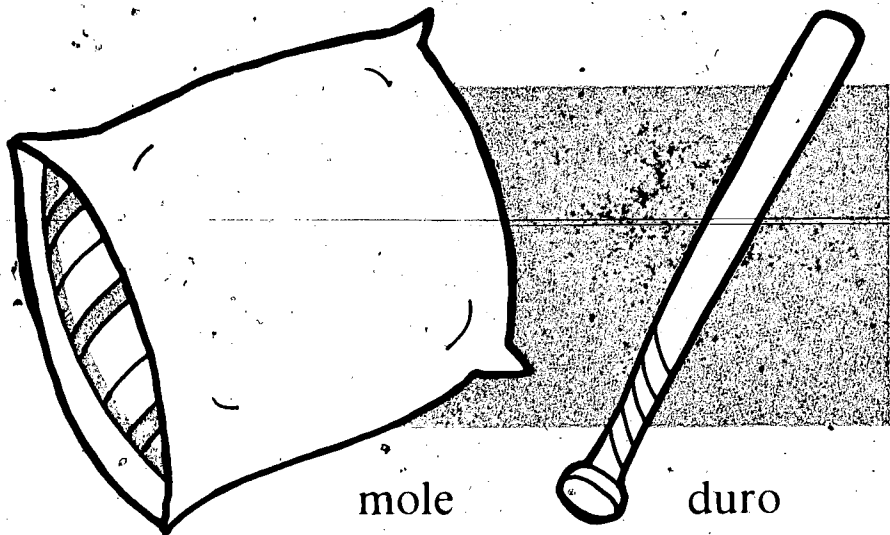


mais pesado

mais leve

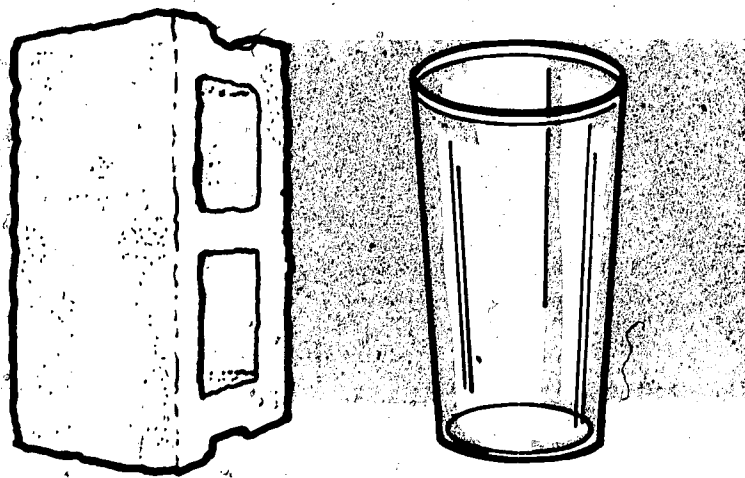
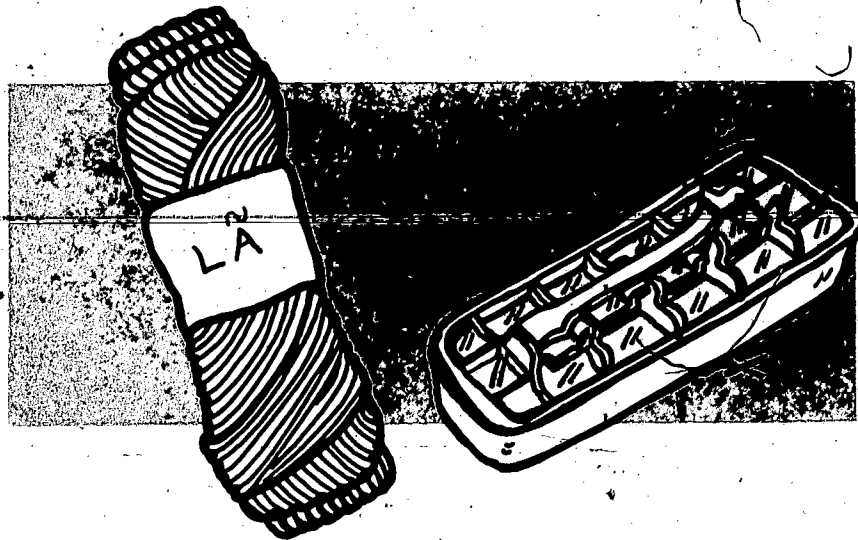


# Consistência



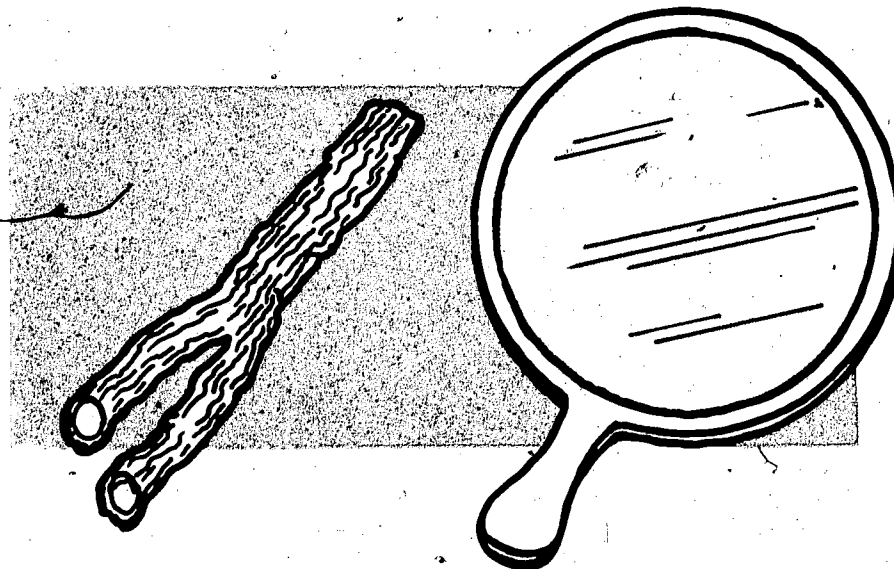
mole

duro

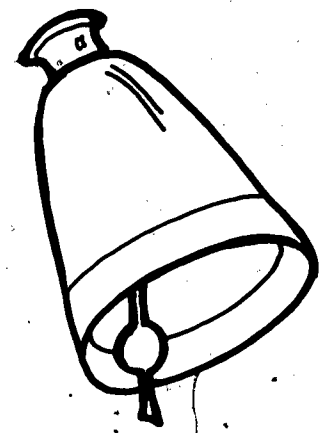
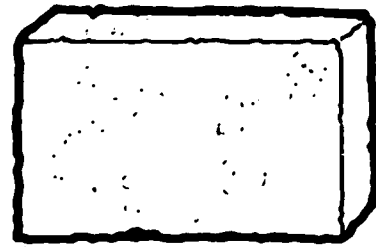
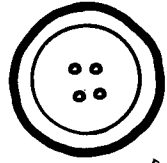
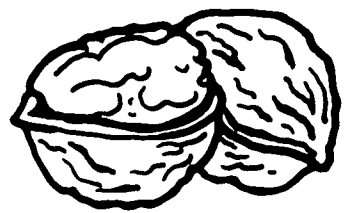
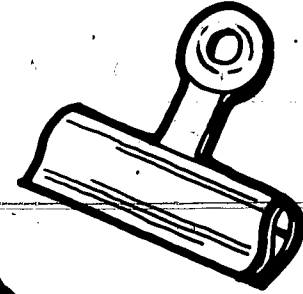
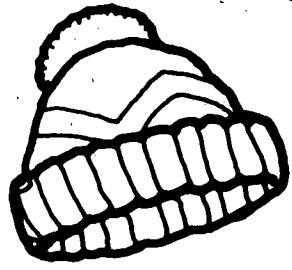
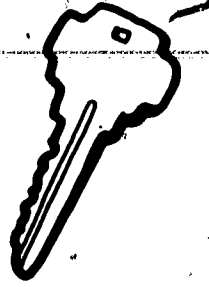
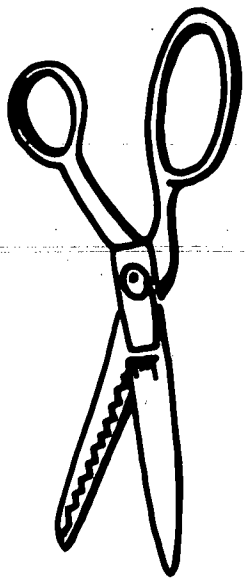


áspero

macio

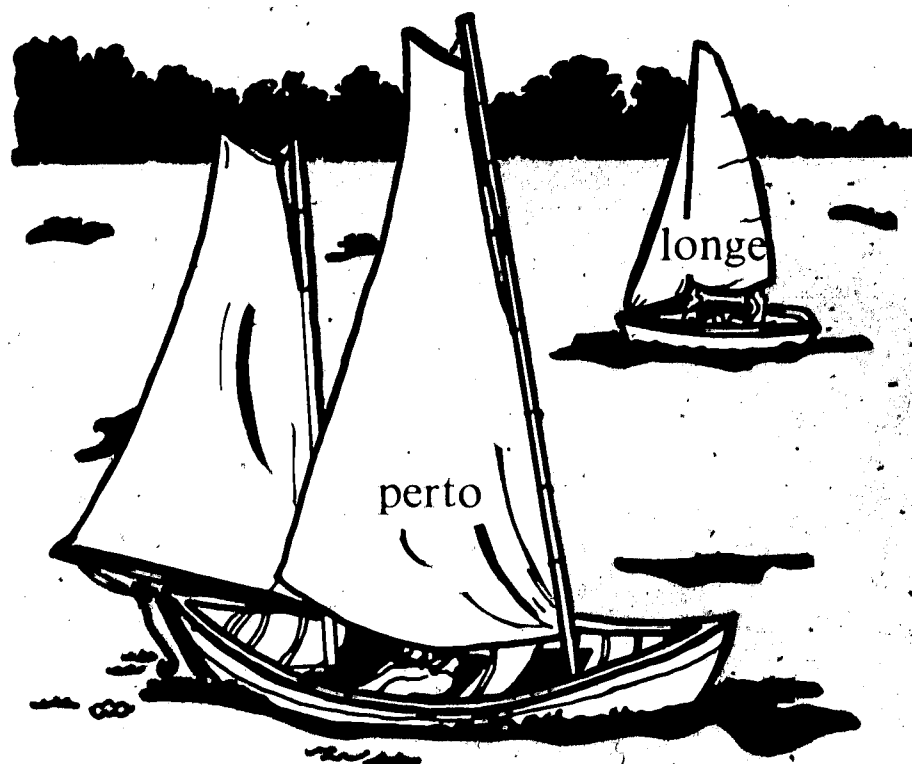








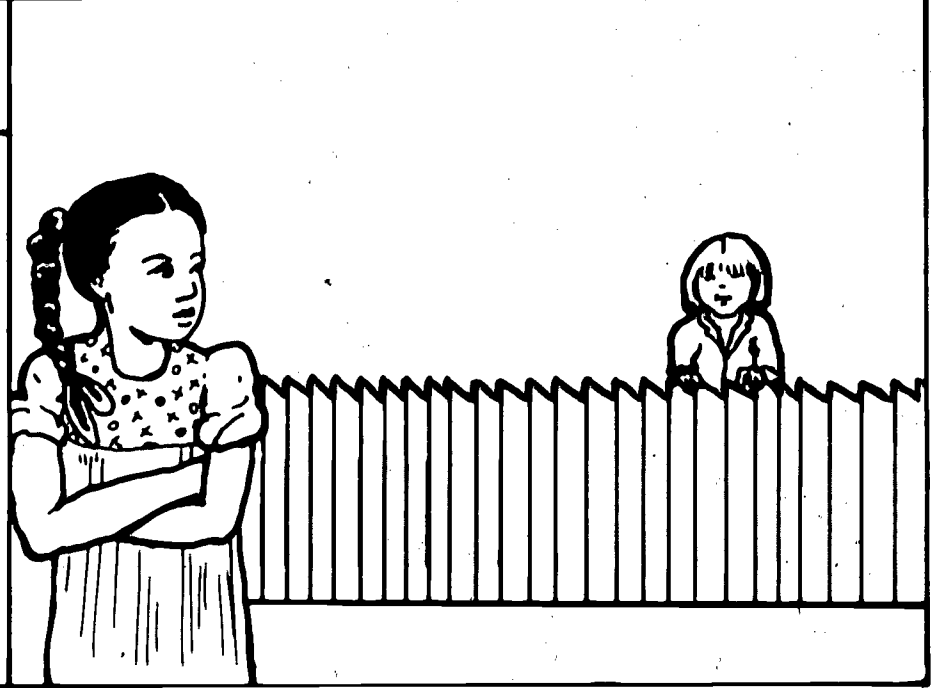
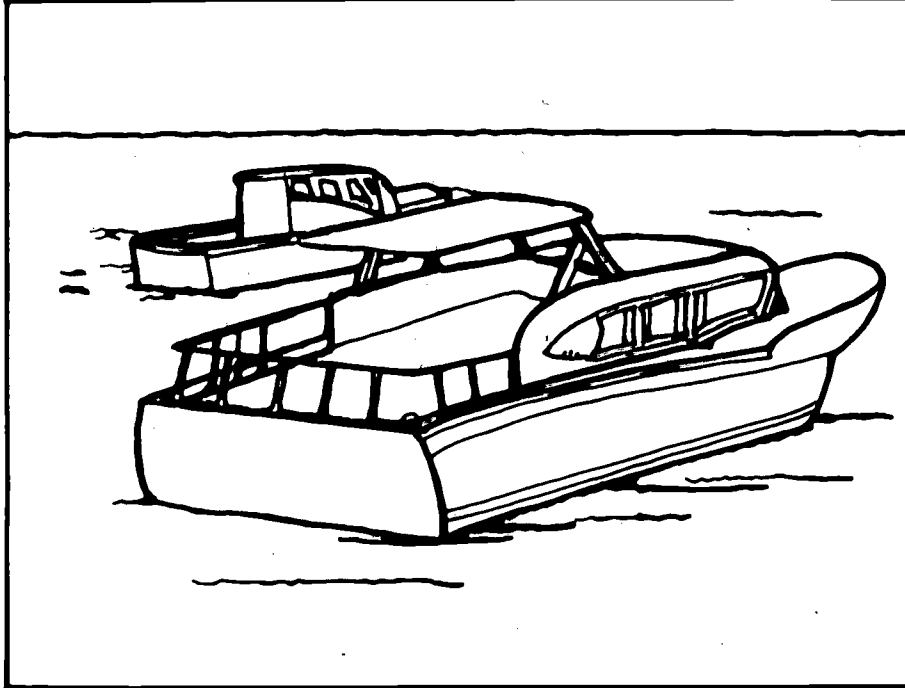
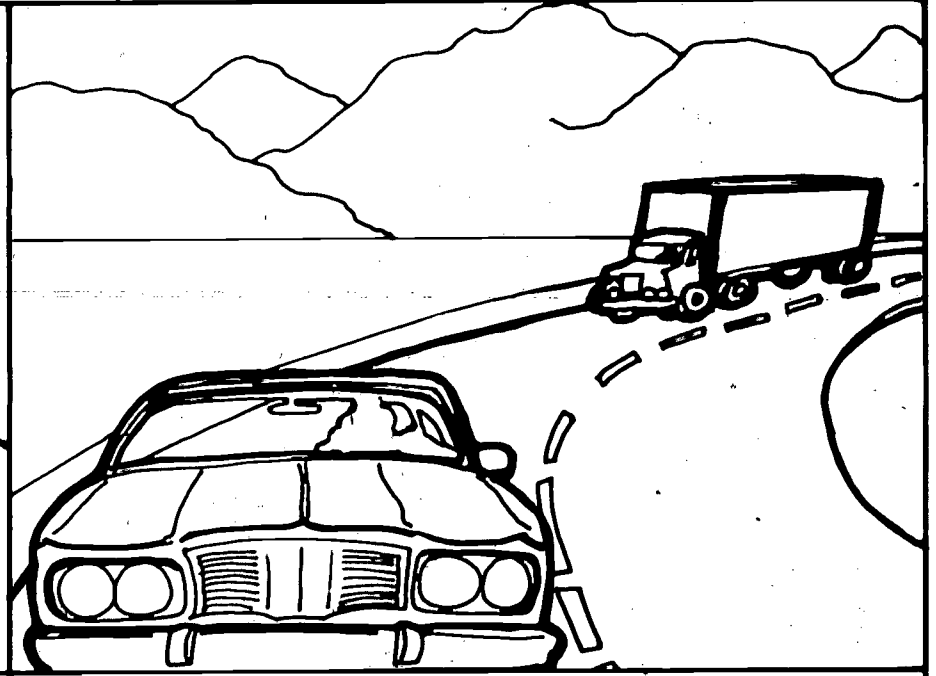
# Distância



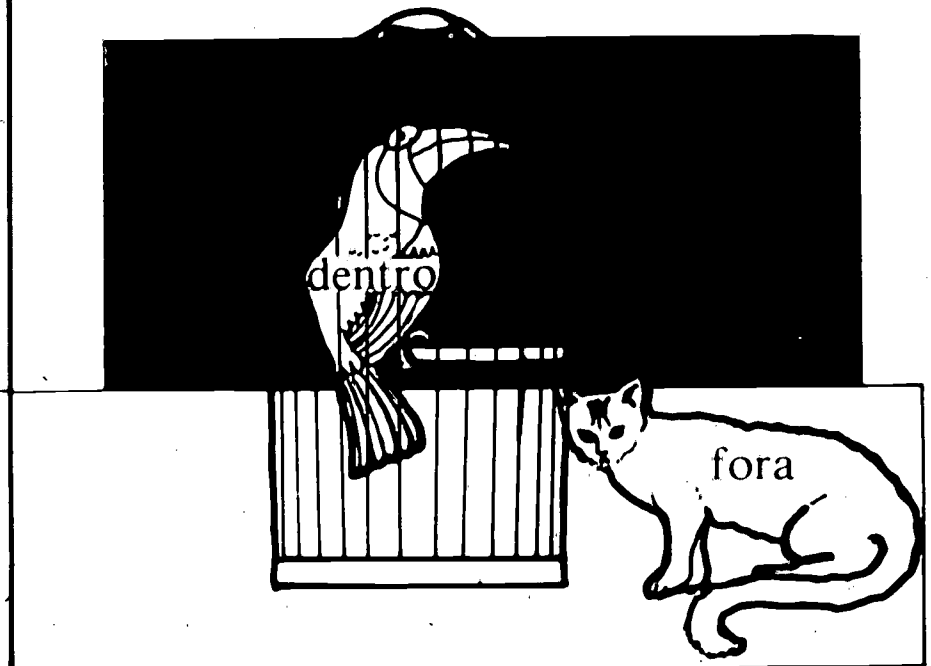
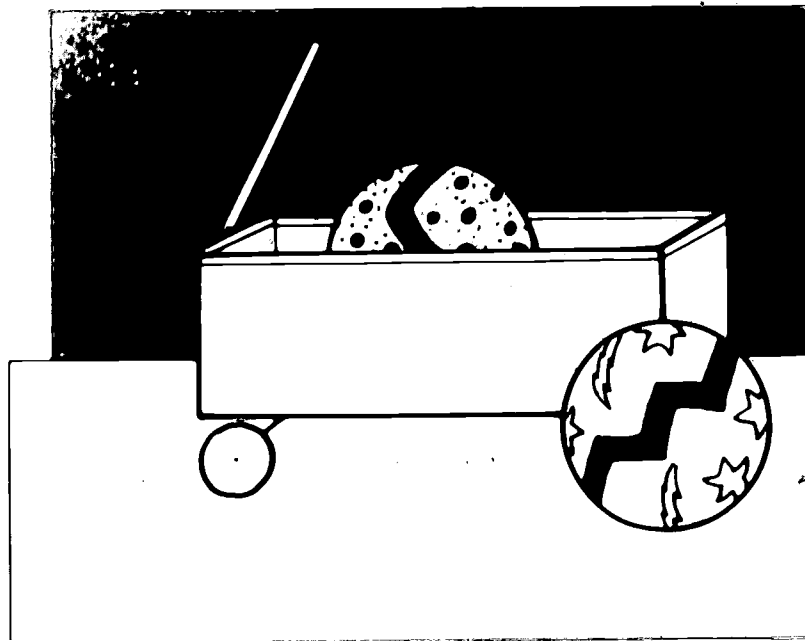
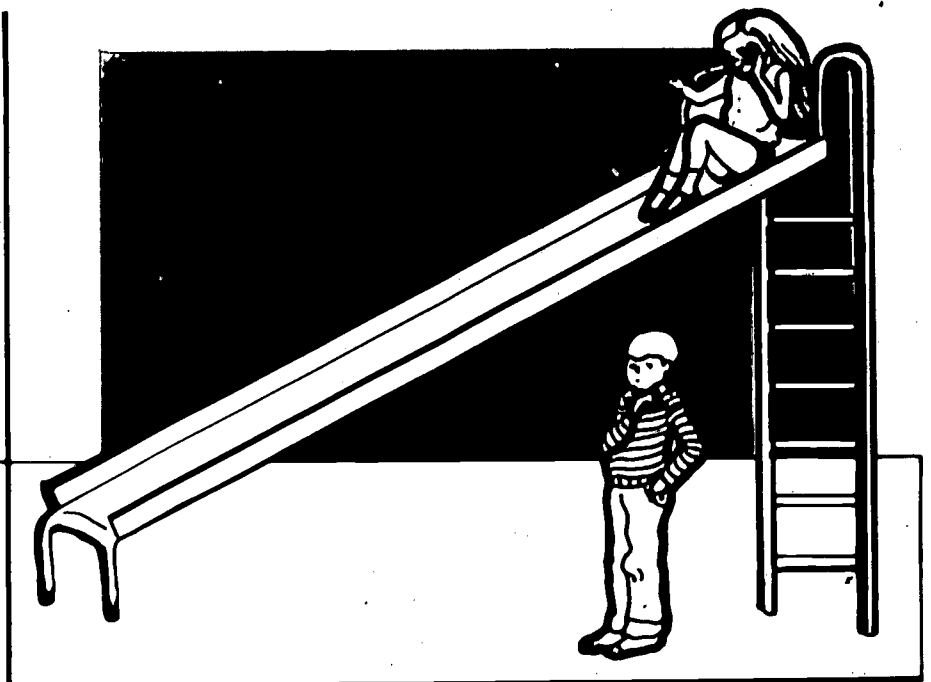
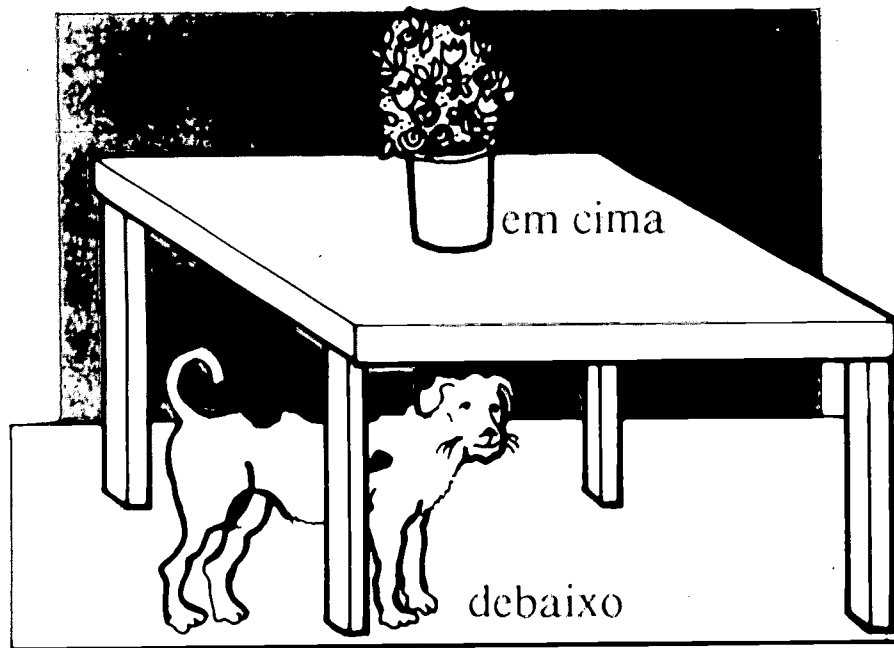
40

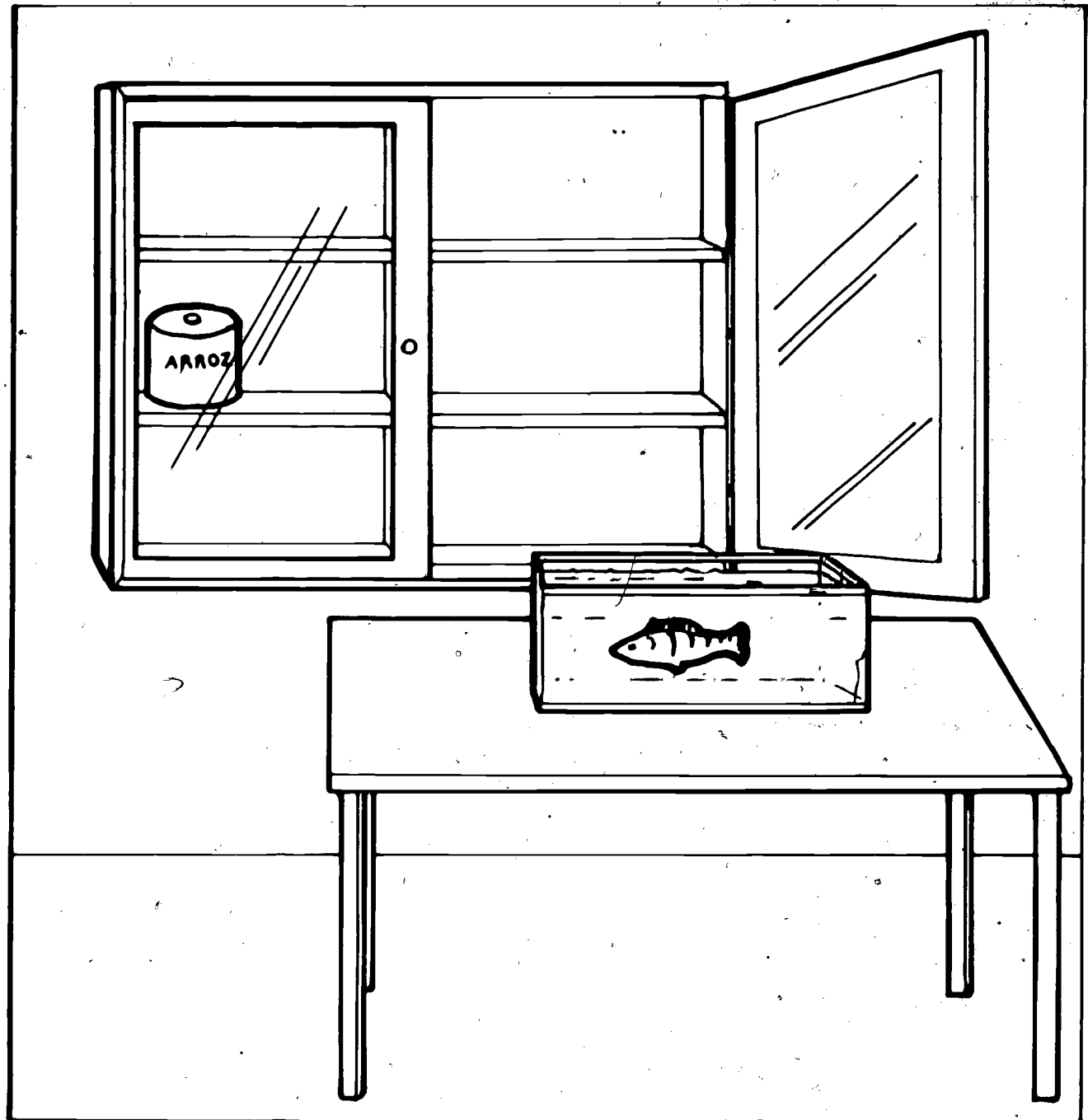
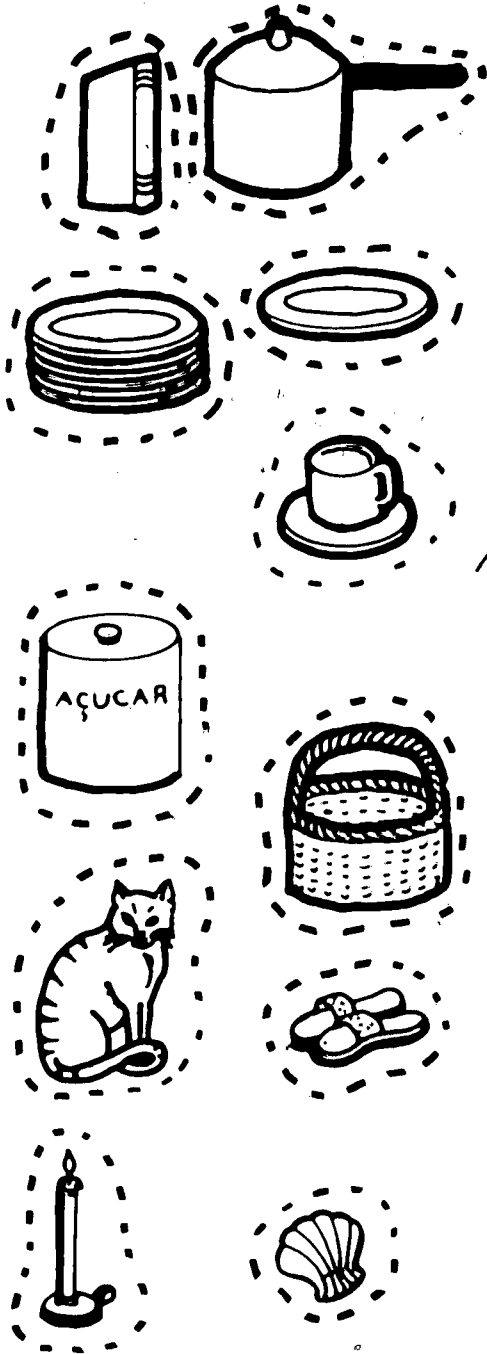


40

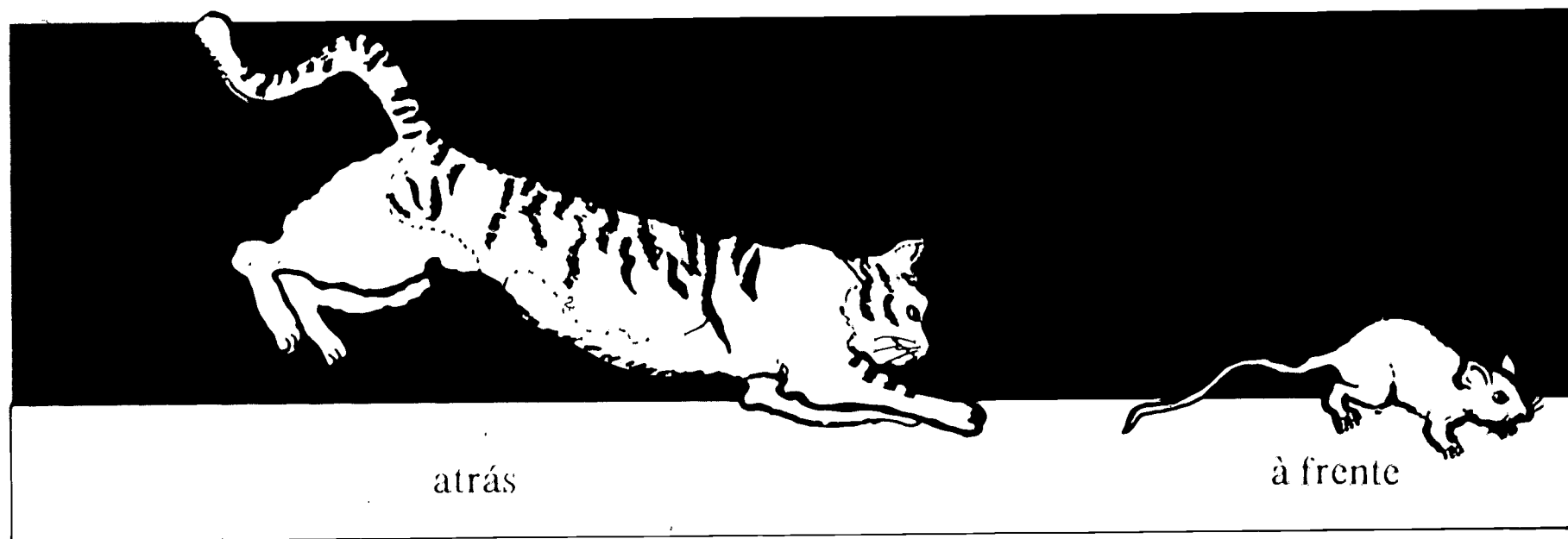
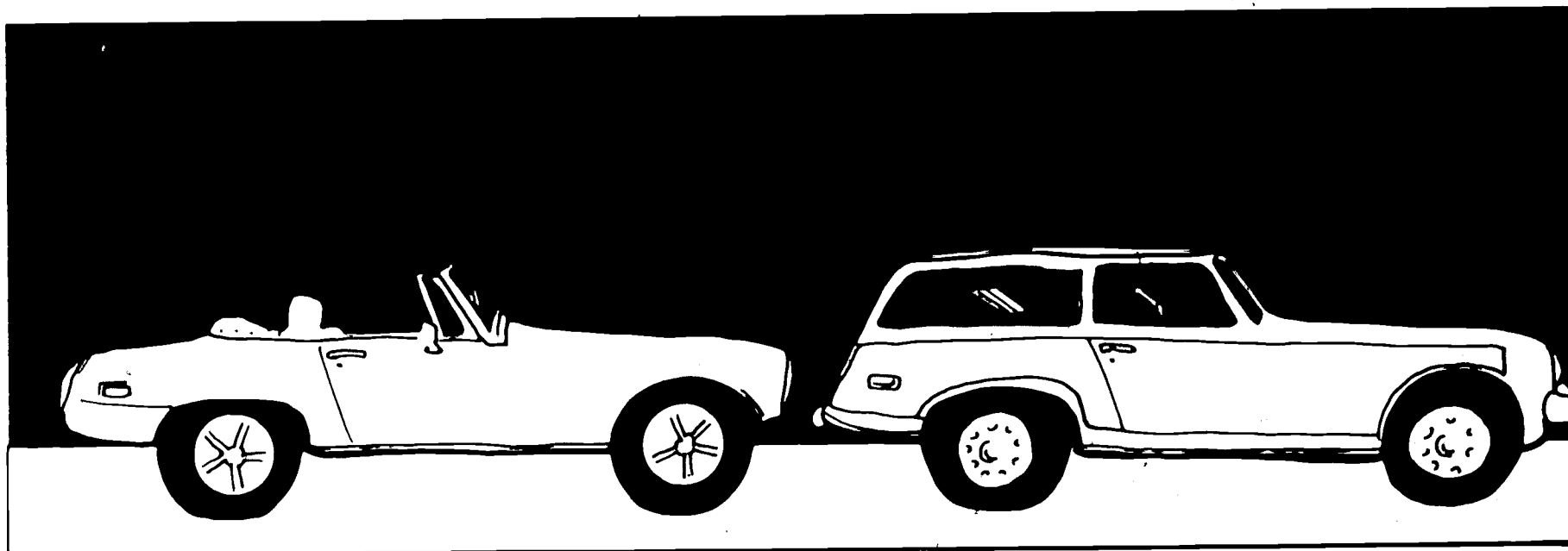


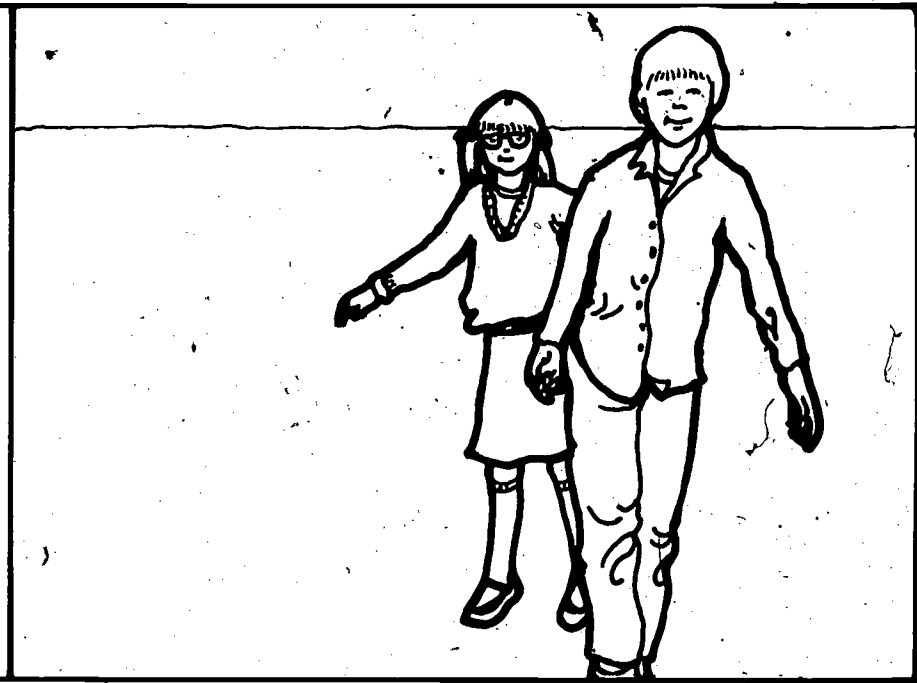
# Localização





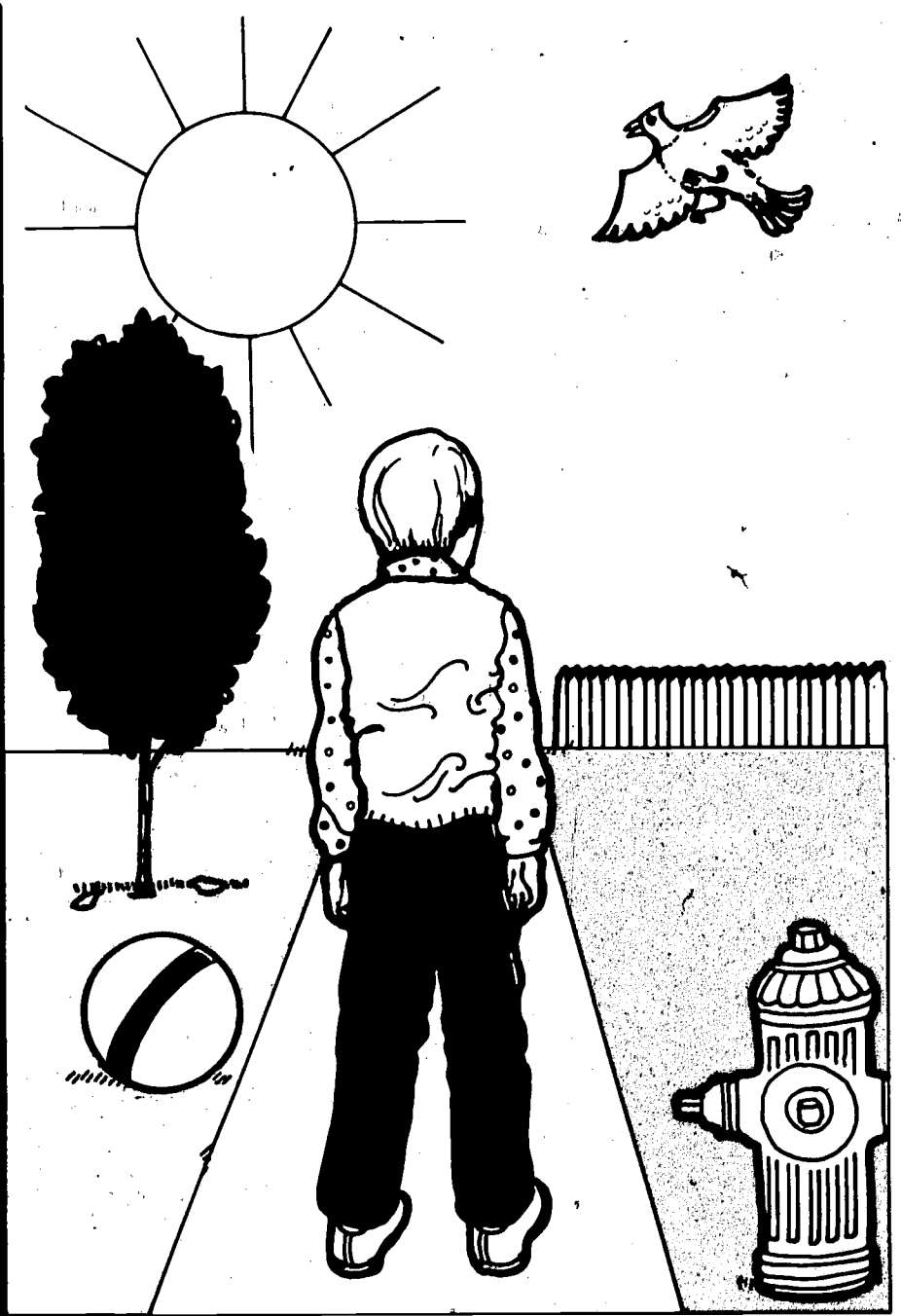
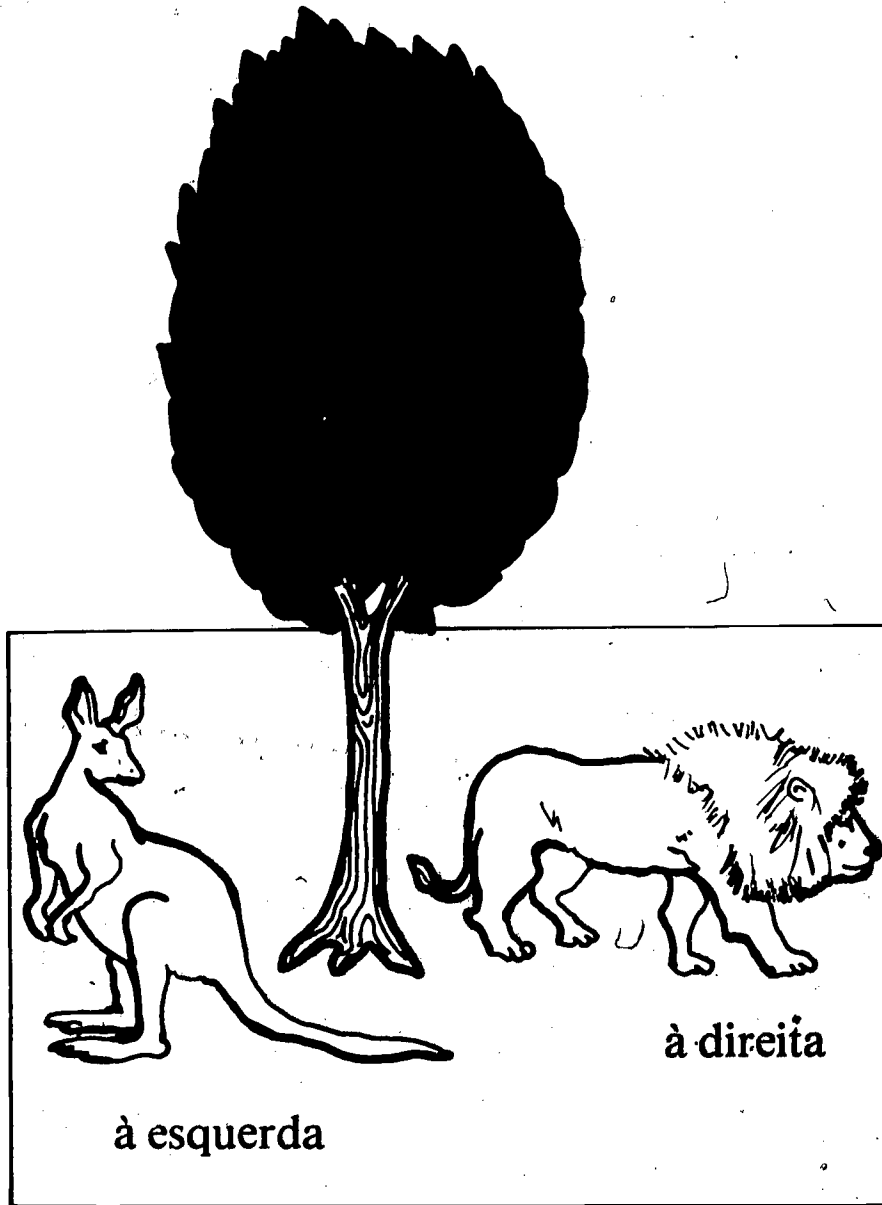
# Localização

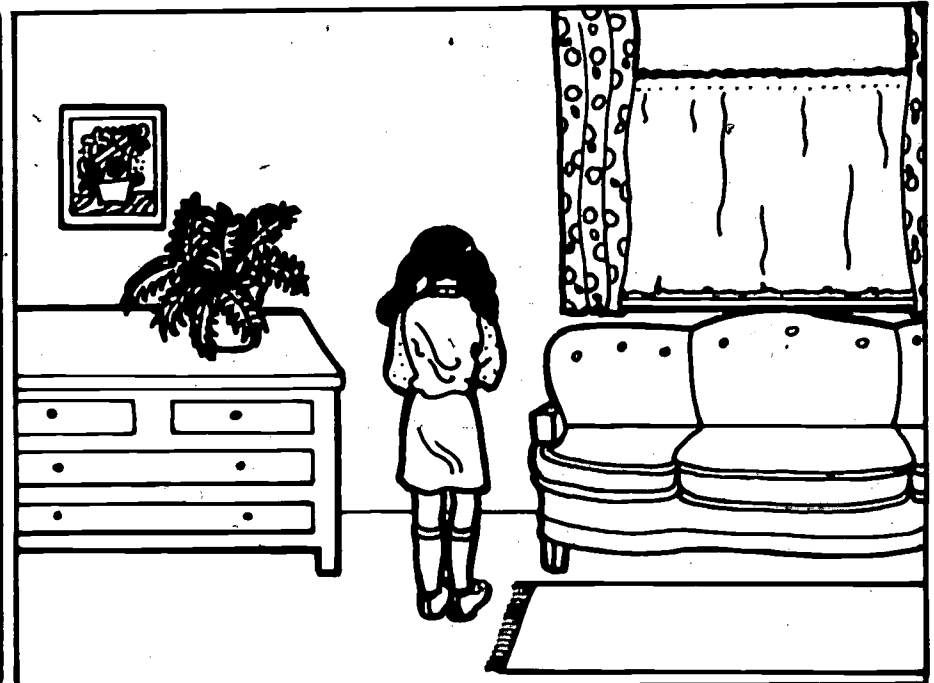
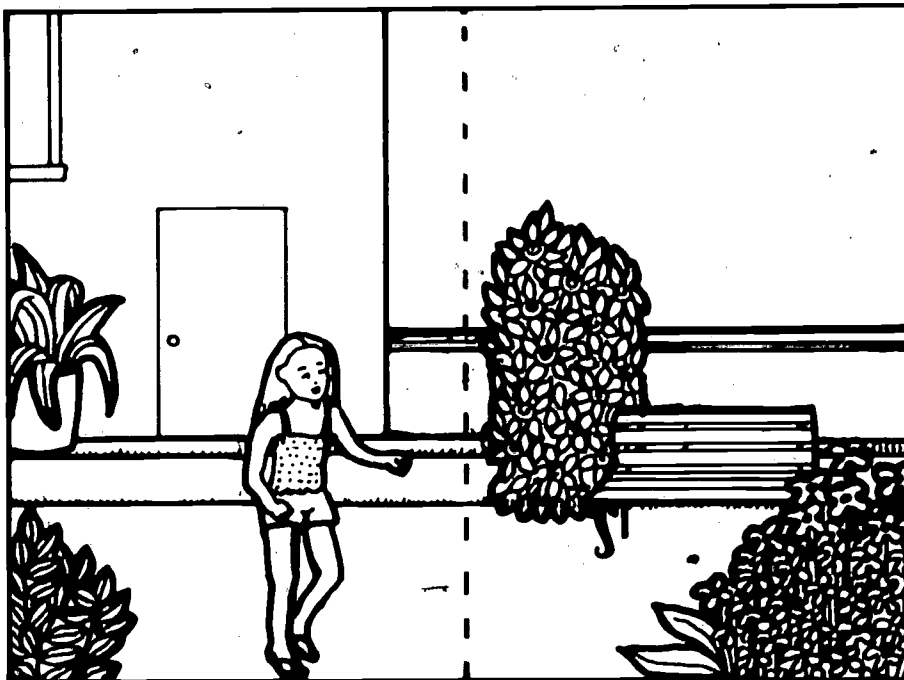
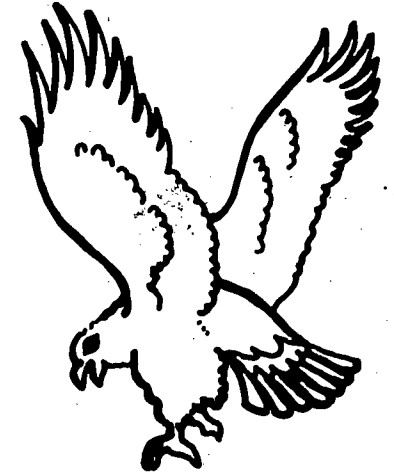
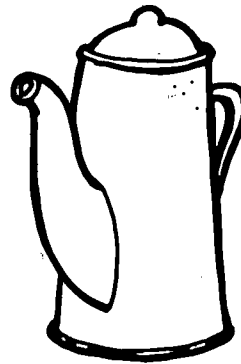
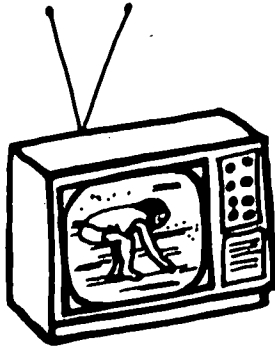
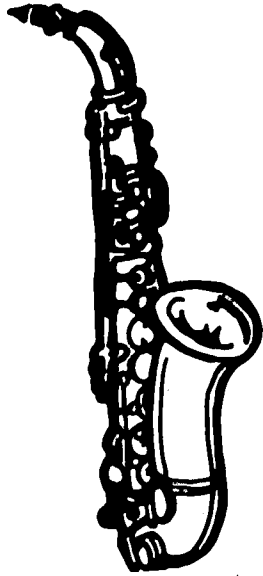




Em cima: Colorir o(a) menino(a) que está atrás.  
1 baixo: Colorir os meninos à frente da menina que está sentada no chão.

# Localização

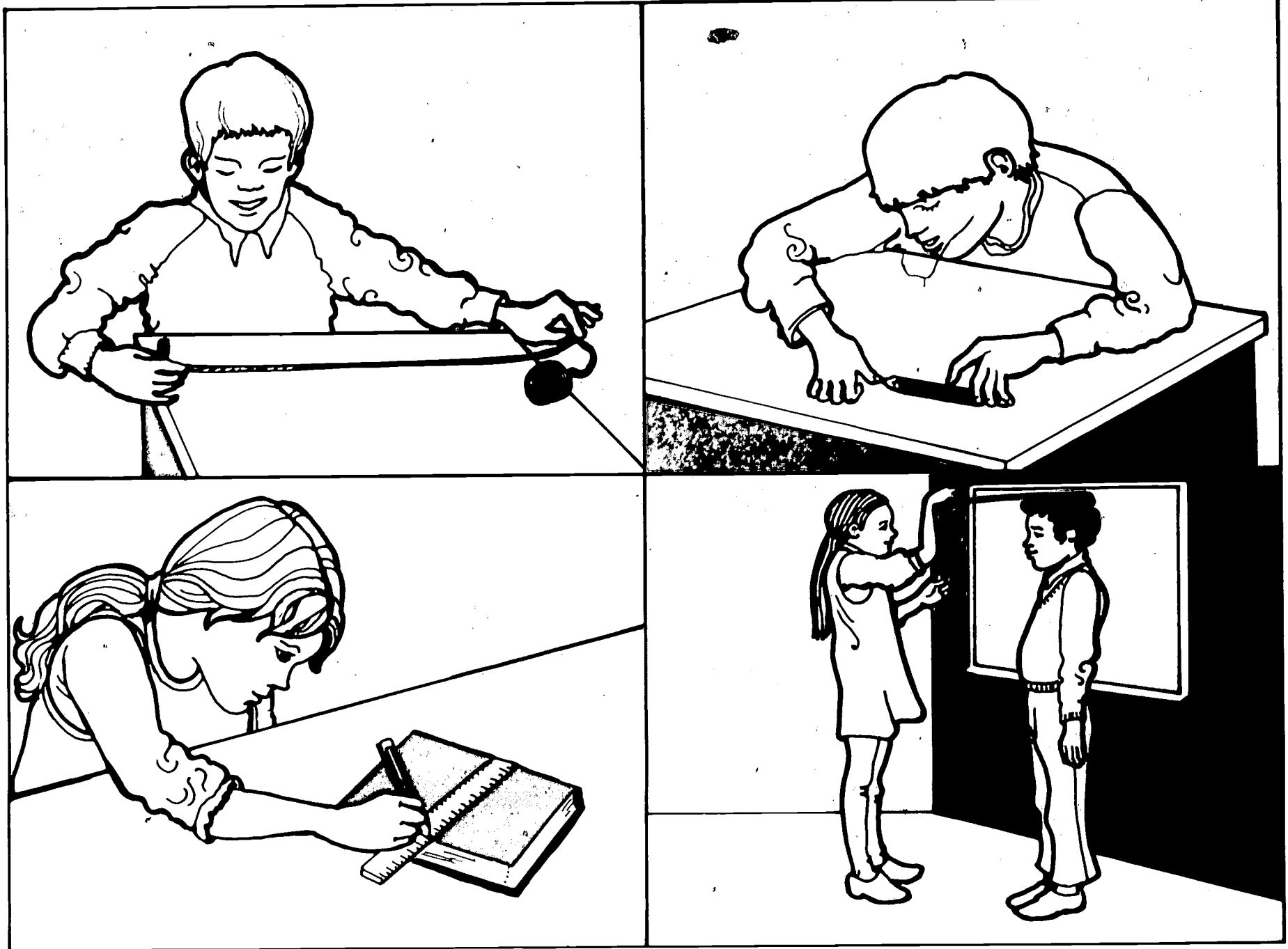




*em cima: Colorir os objectos à esquerda da cafeteira.  
em baixo: Colorir à direita da linha tracejada, no primeiro quadro e à direita da menina, no segundo.*



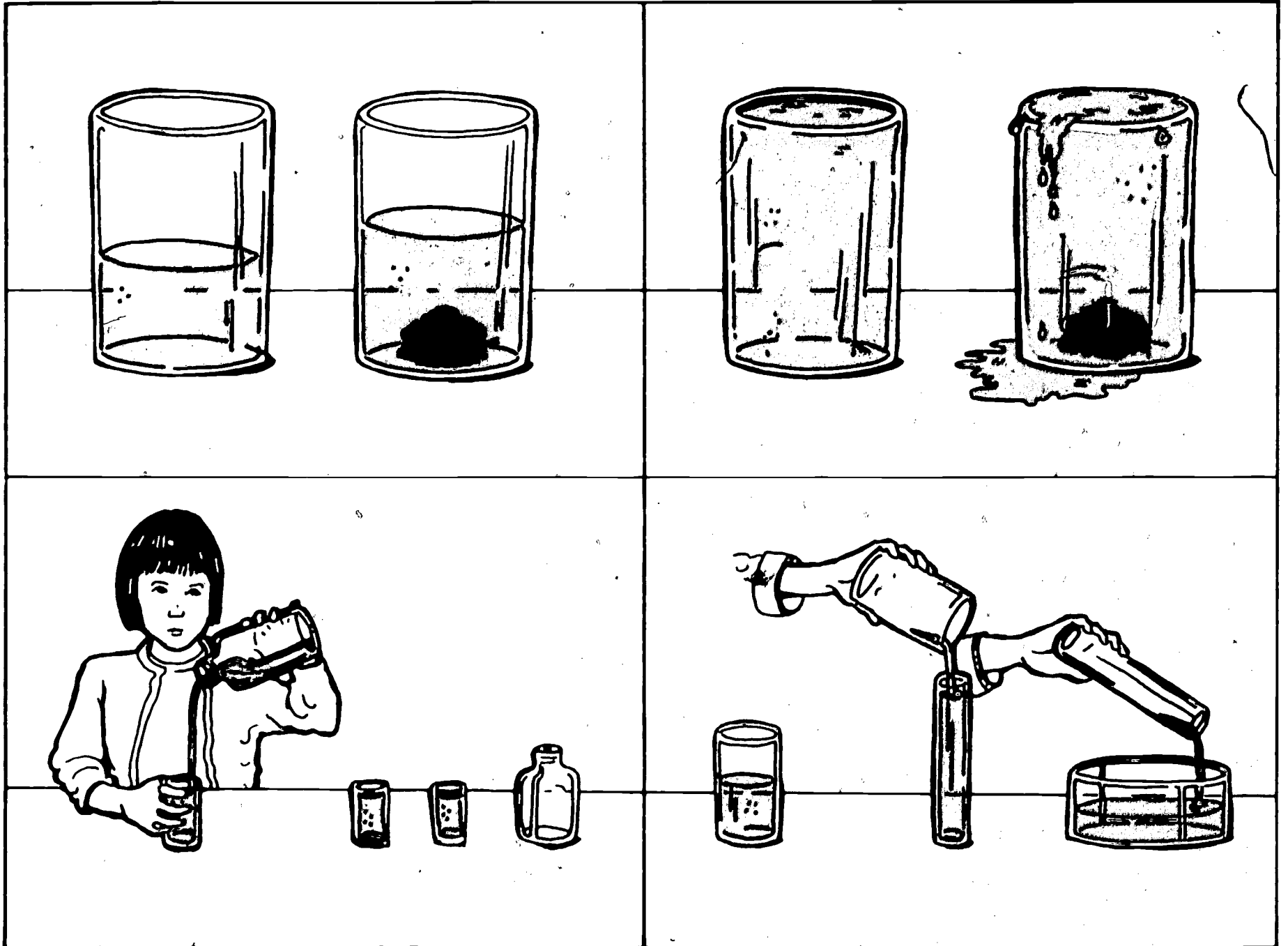
# Medição de Comprimento



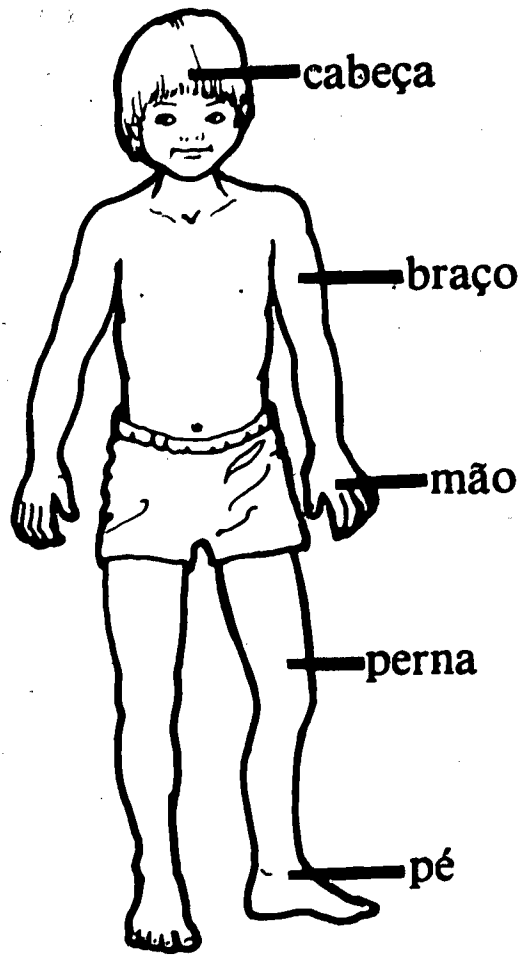
li

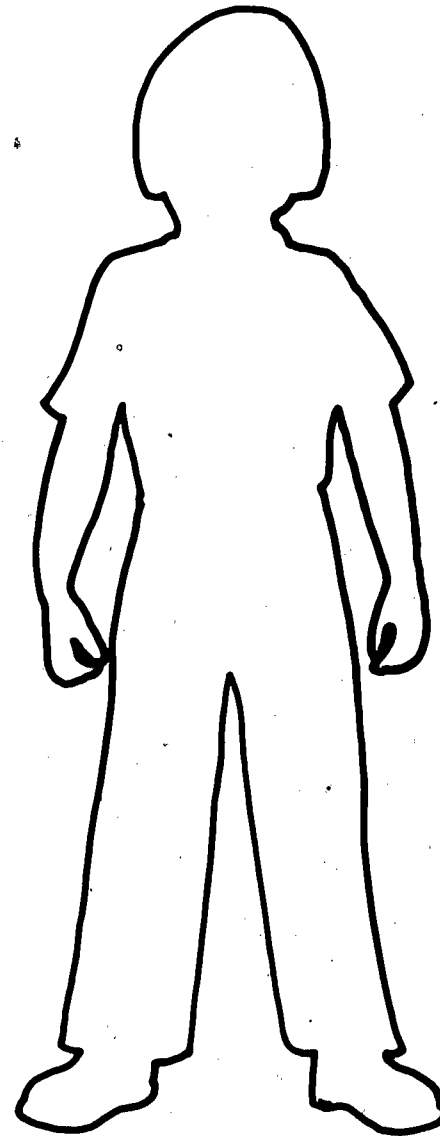
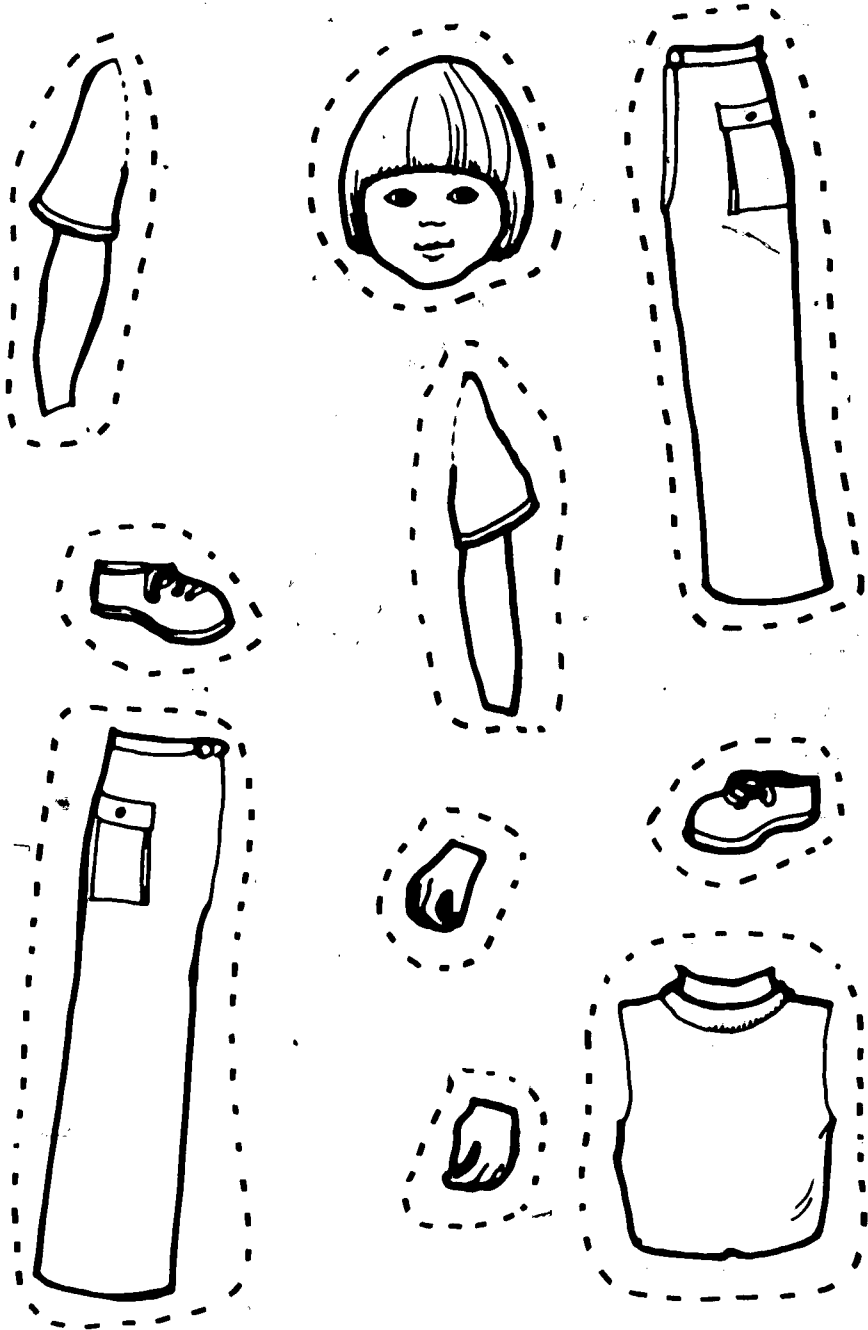
li

# Medição de Volume

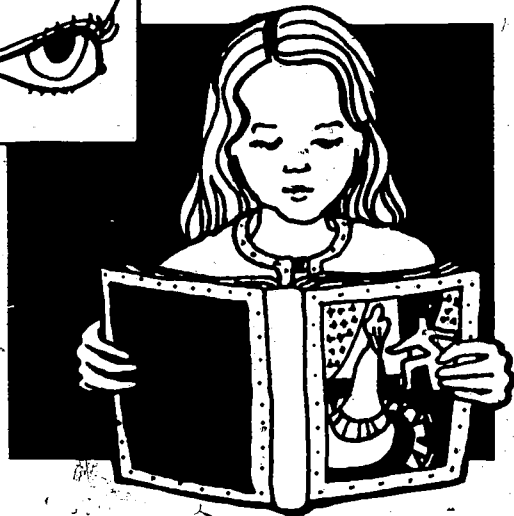
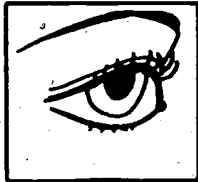


# O Meu Corpo

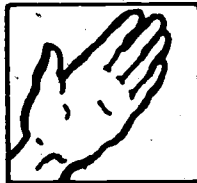




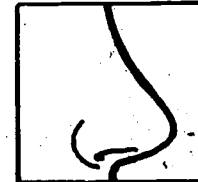
# Os Sentidos



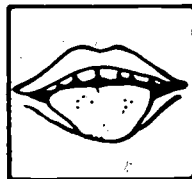
vista



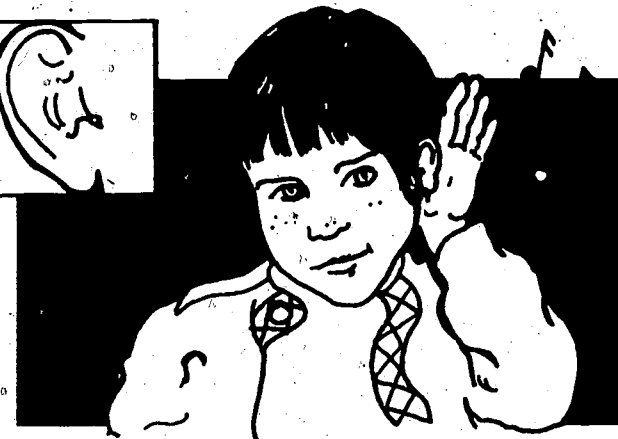
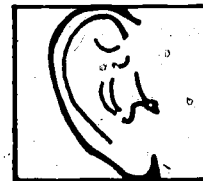
tacto



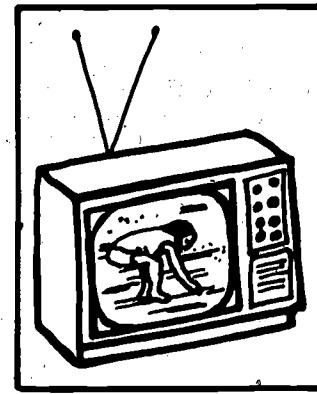
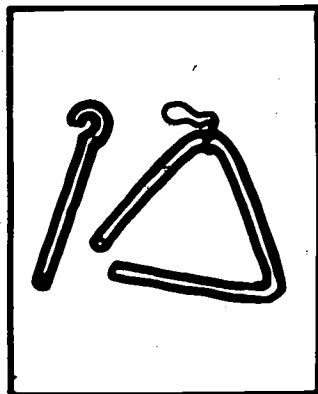
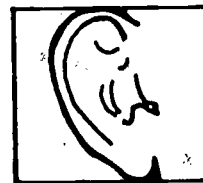
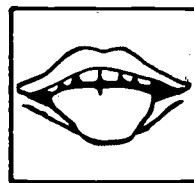
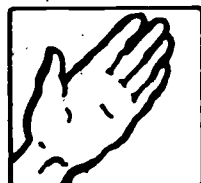
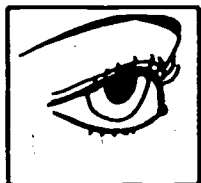
cheiro



gosto



ouvido



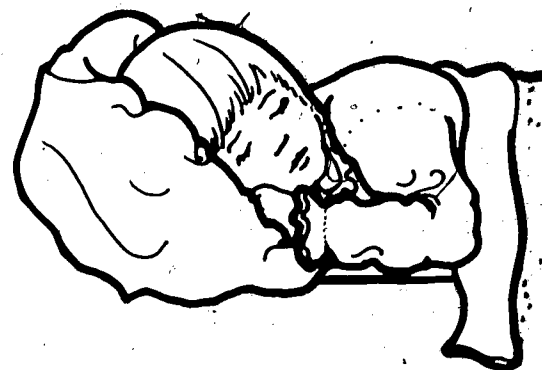
# Cuidados com a Saúde



boa alimentação



vestuário  
apropriado



descanso



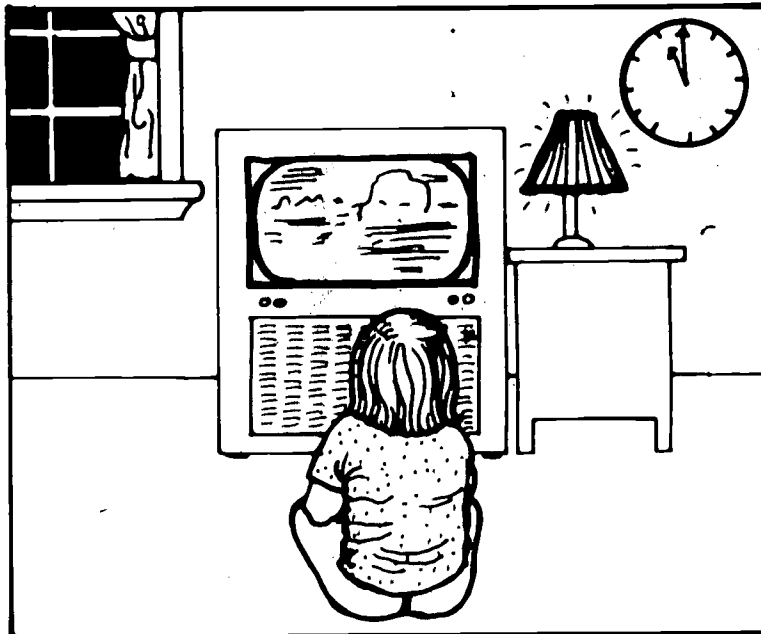
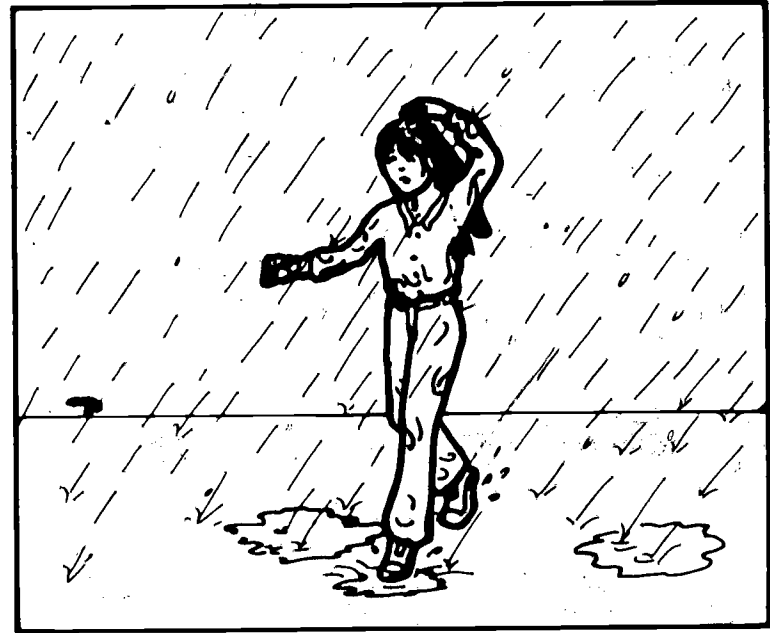
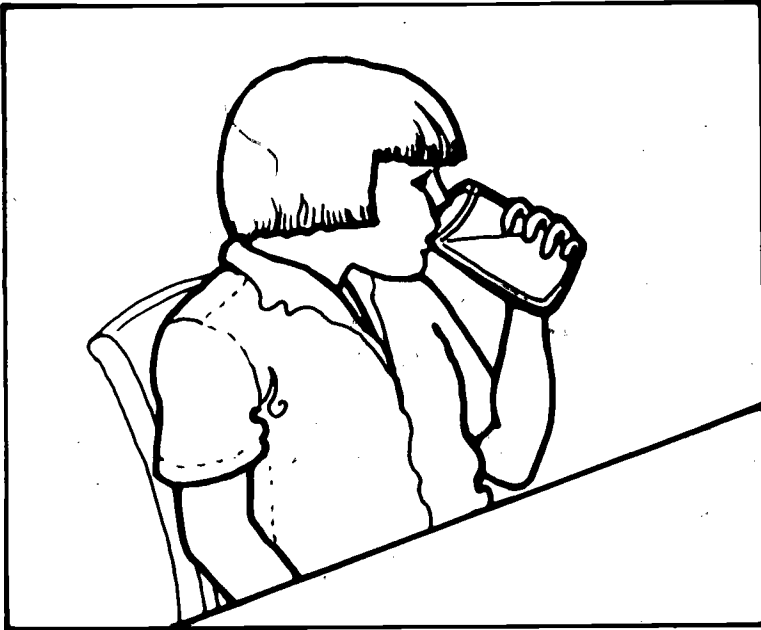
higiene



posição correcta

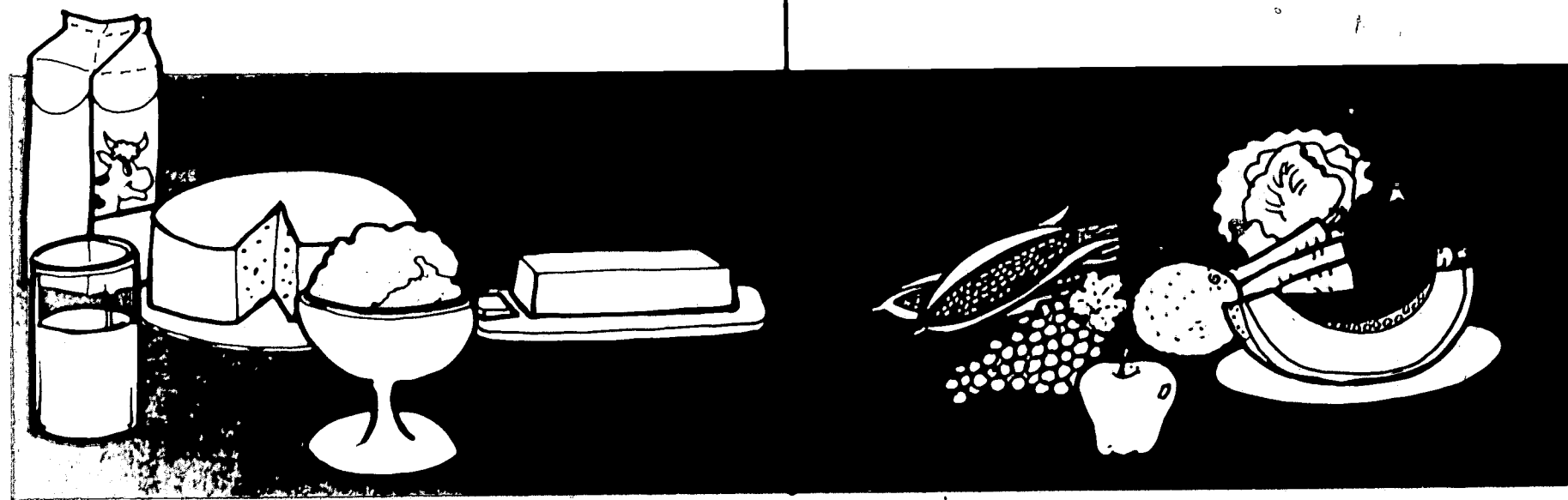


recreio

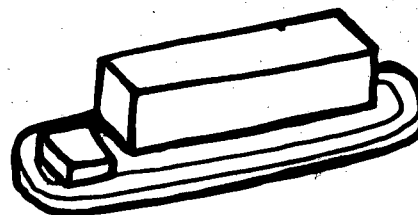
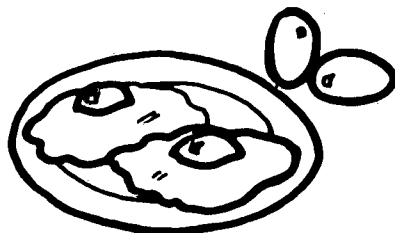
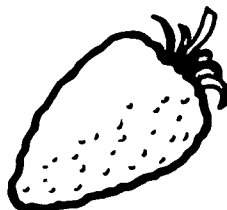
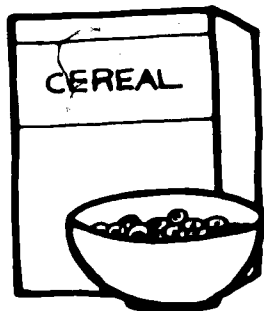
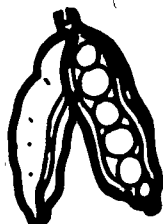
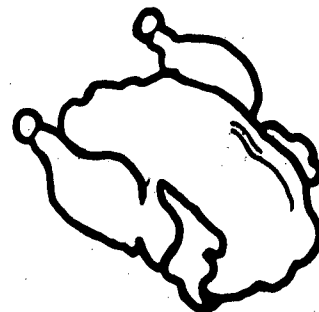
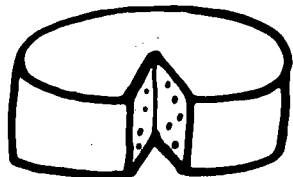
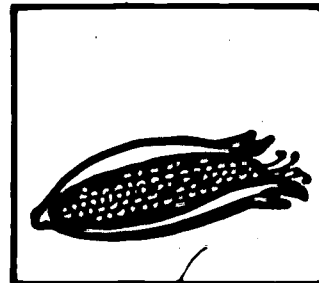
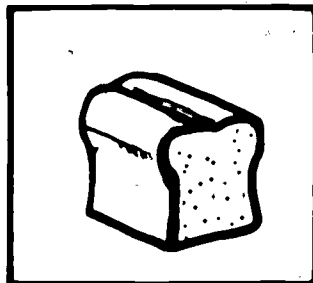
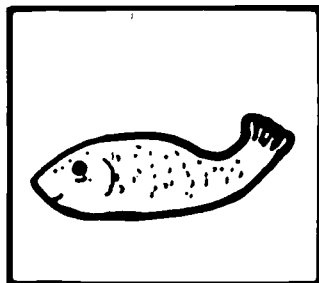




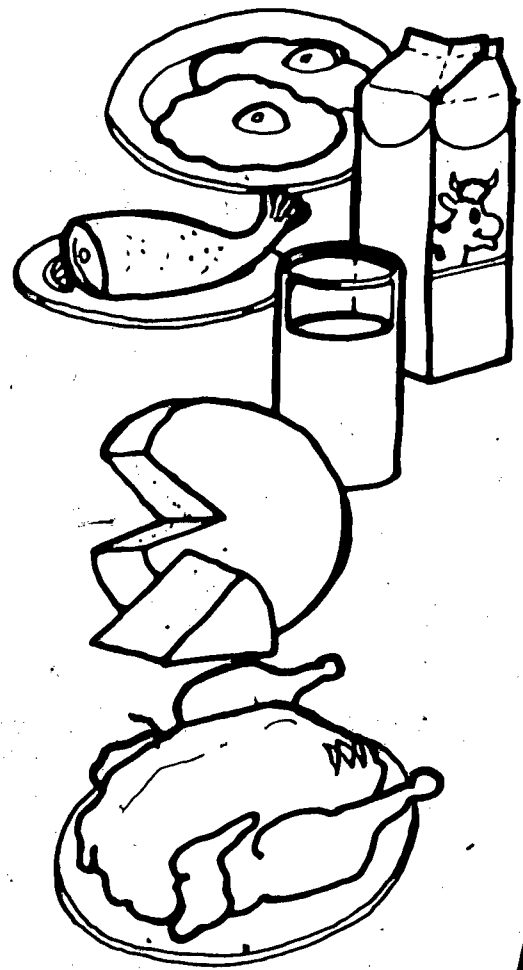
# Grupos Alimentares



Nome \_\_\_\_\_



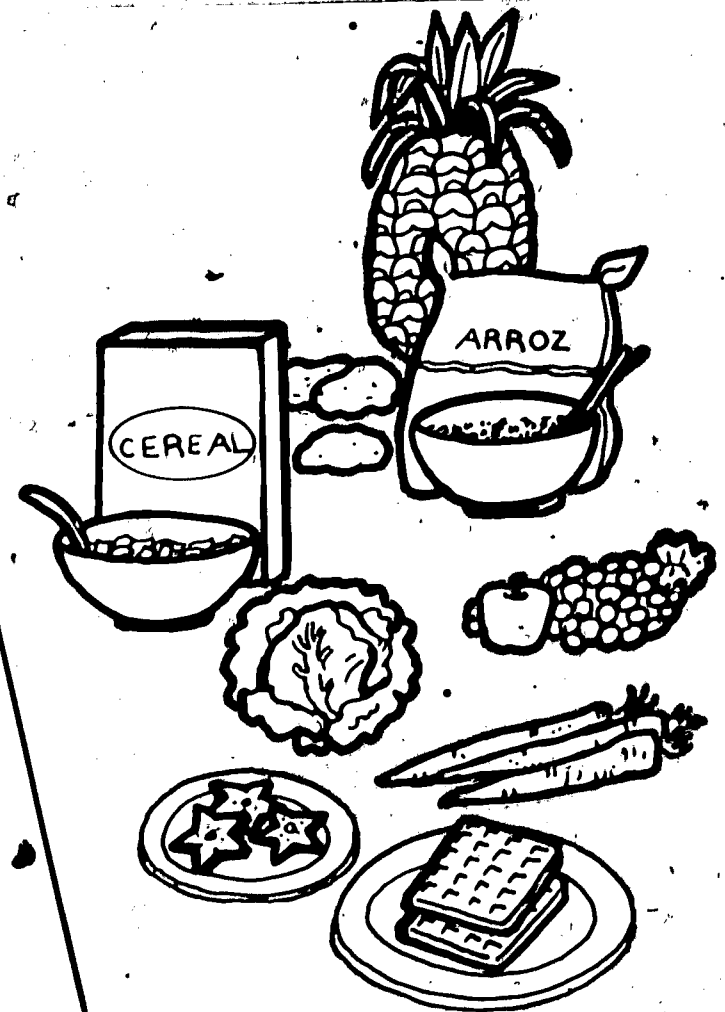
# A Origem dos Alimentos



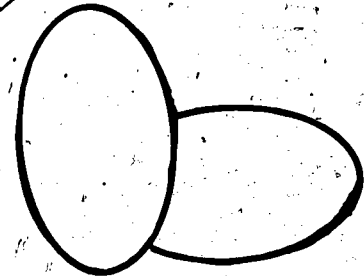
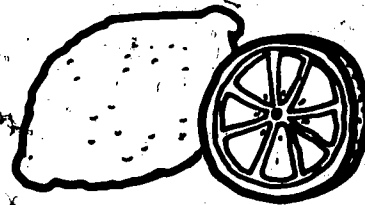
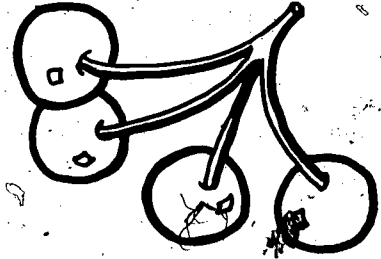
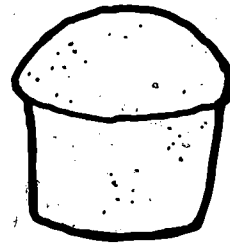
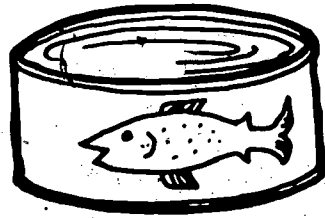
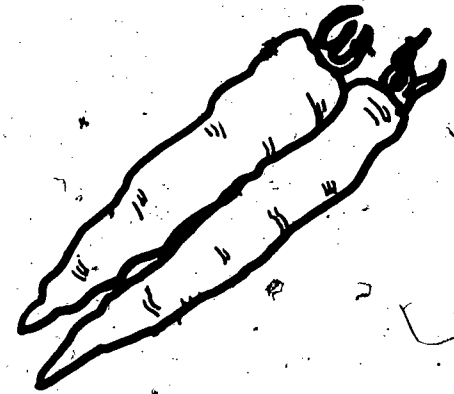
animal



mineral



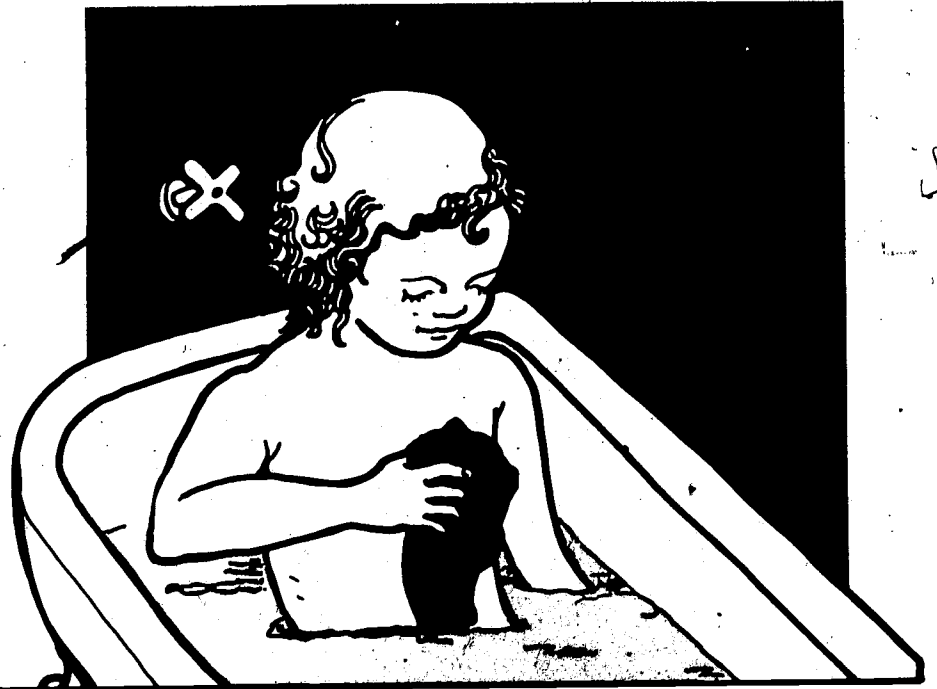
vegetal



83

84

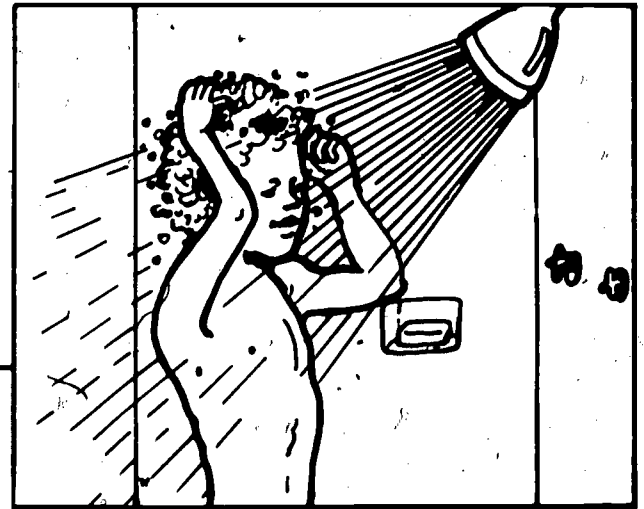
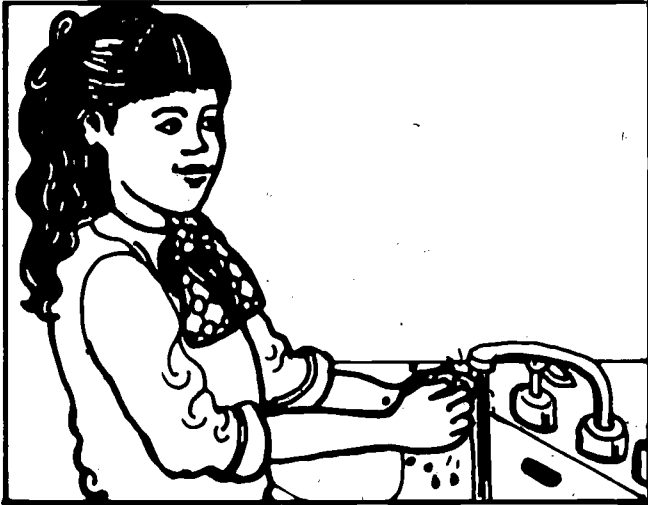
# Higiene



85

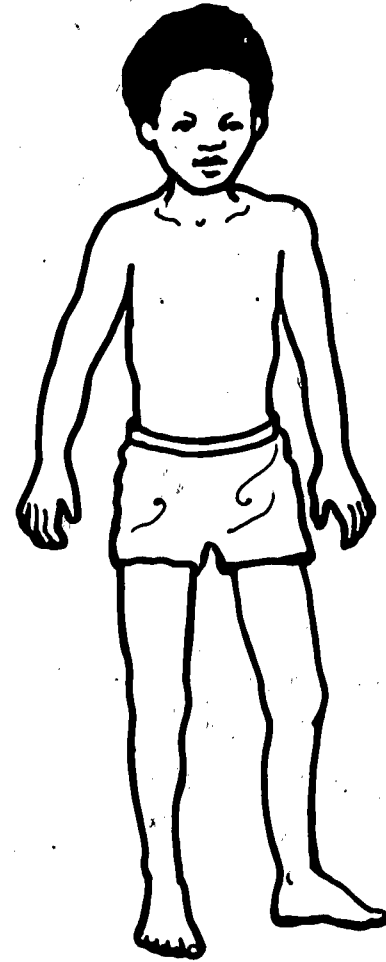
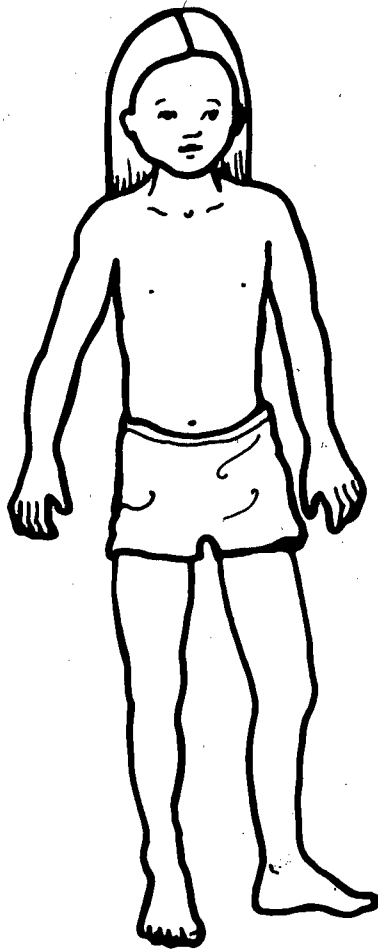
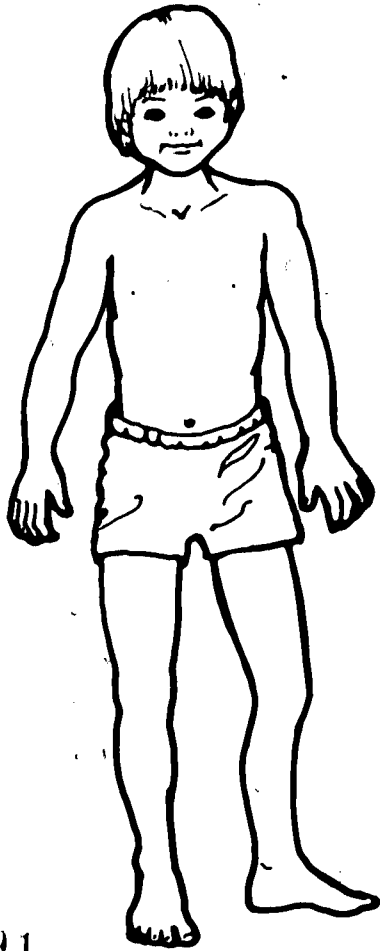
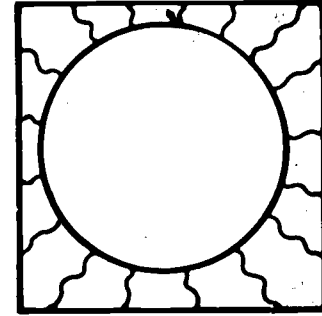
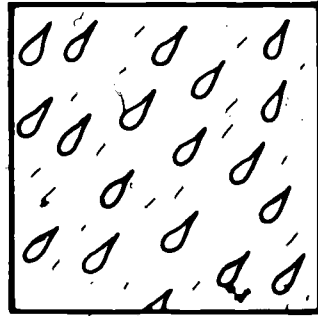
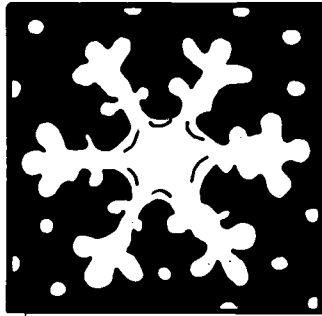
86

39



# Vestir de Acordo com o Tempo

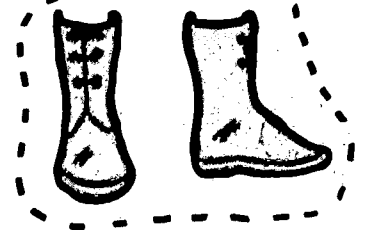
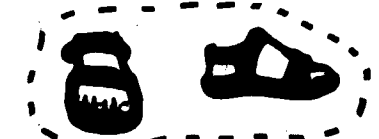
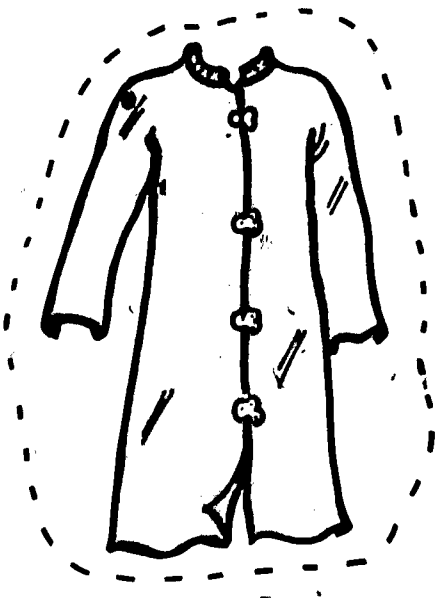
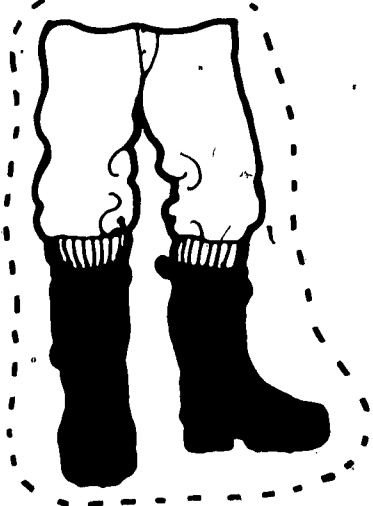
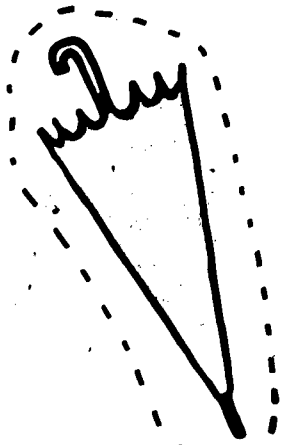
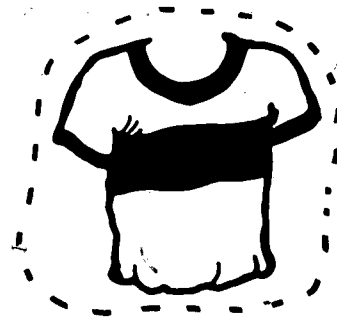
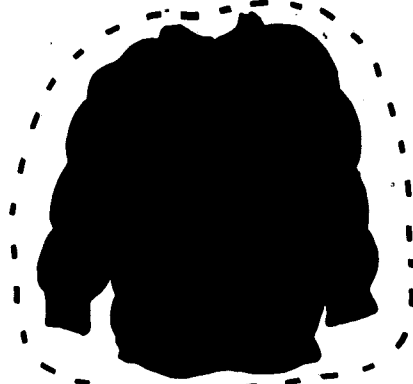




42 91

92

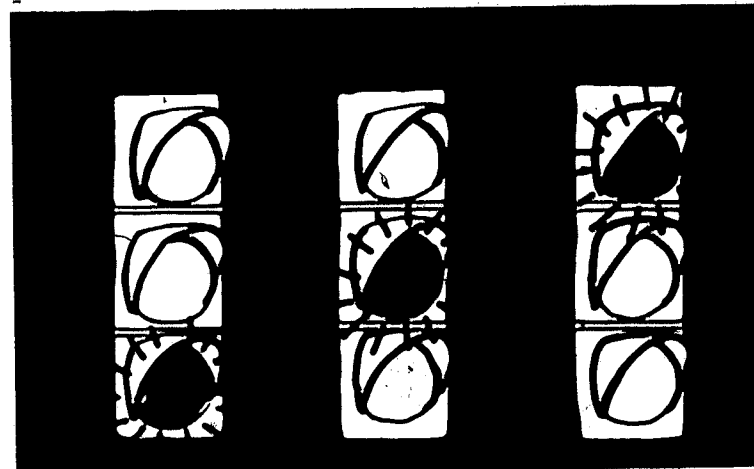




# Regras de Segurança



Antes de atravessar, pára e olha pára os dois lados.



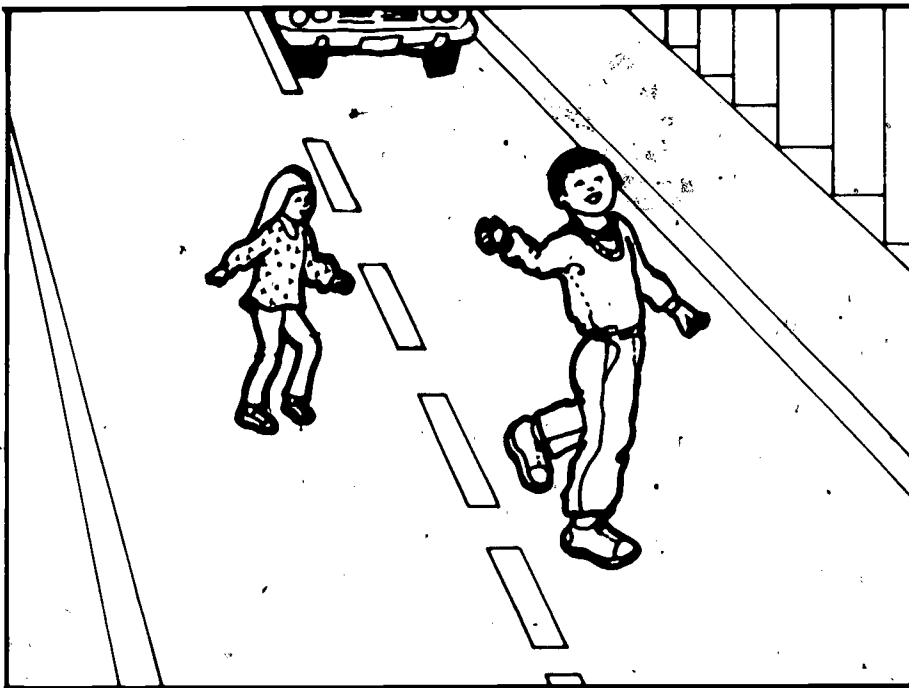
luz verde: —passar      luz amarela: —cuidado      luz vermelha: —parar



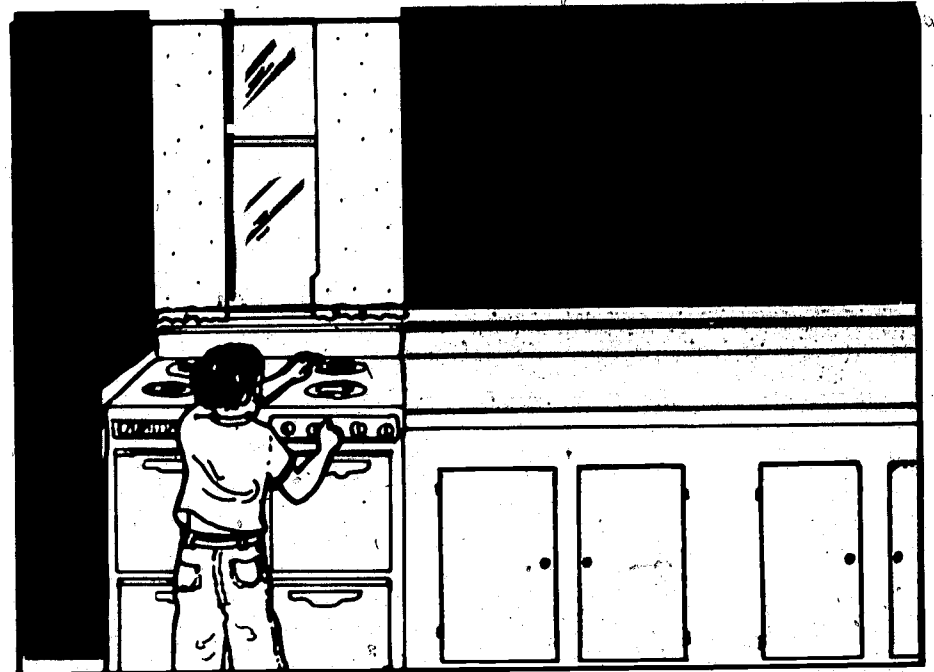
Segurar o guiador com as duas mãos.

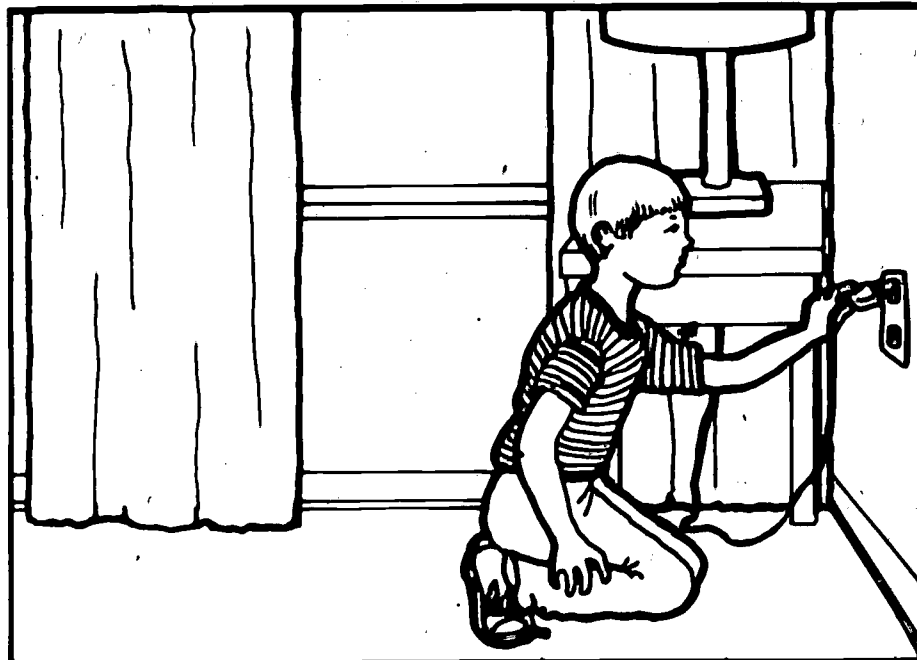
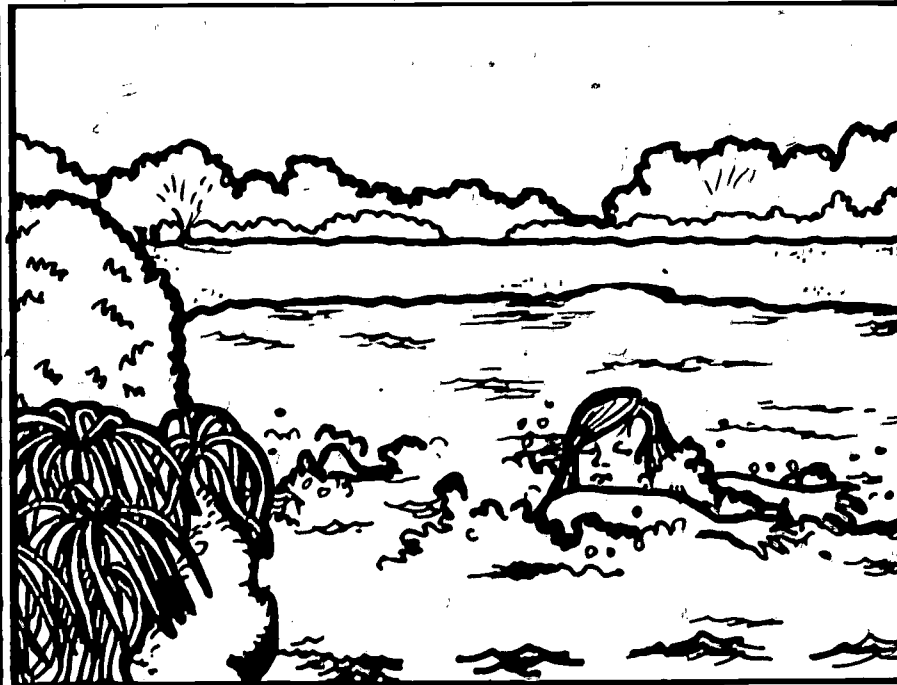
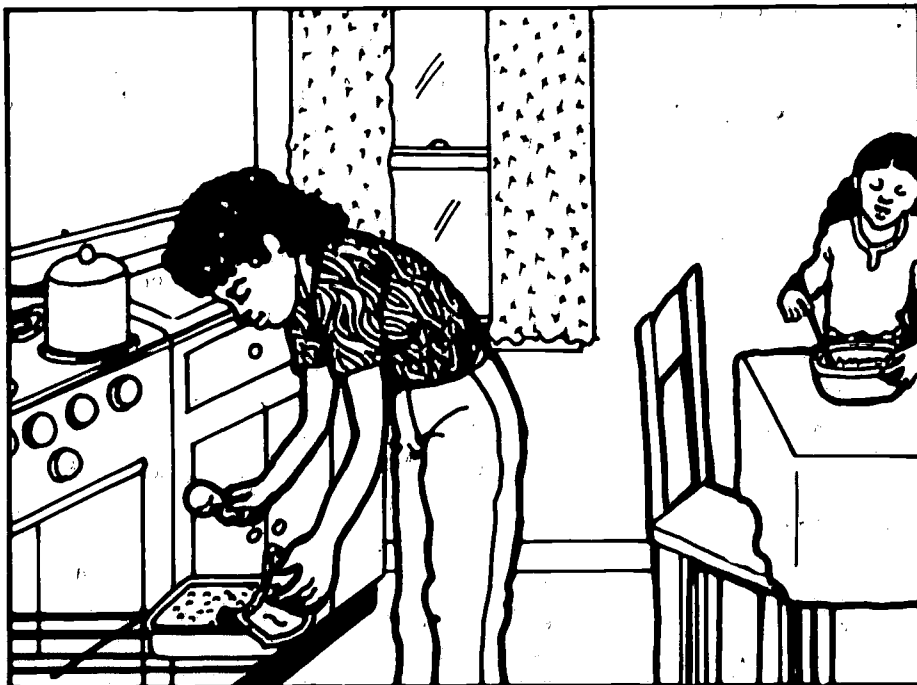


Não brincar perto de carros parados ou no meio da rua.

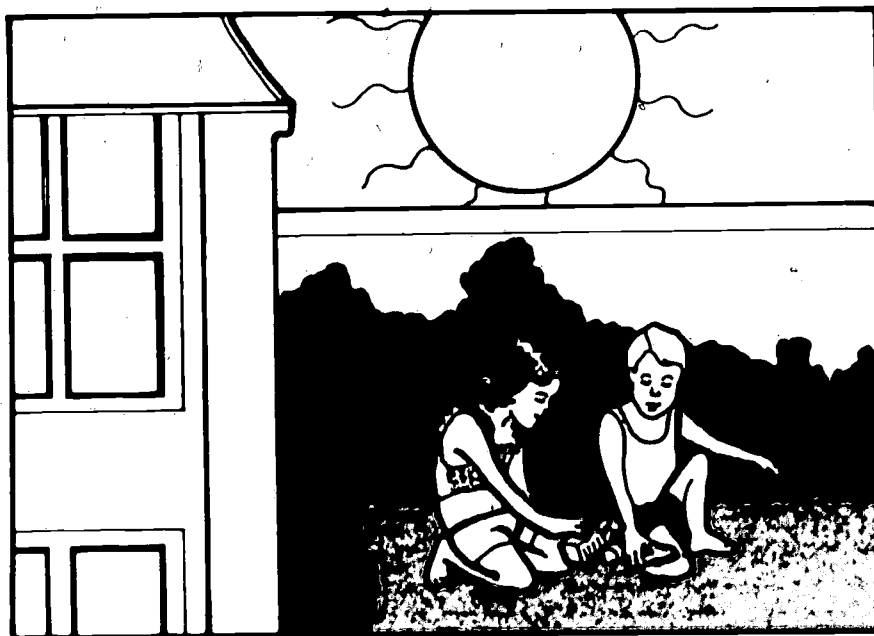


# É perigoso...

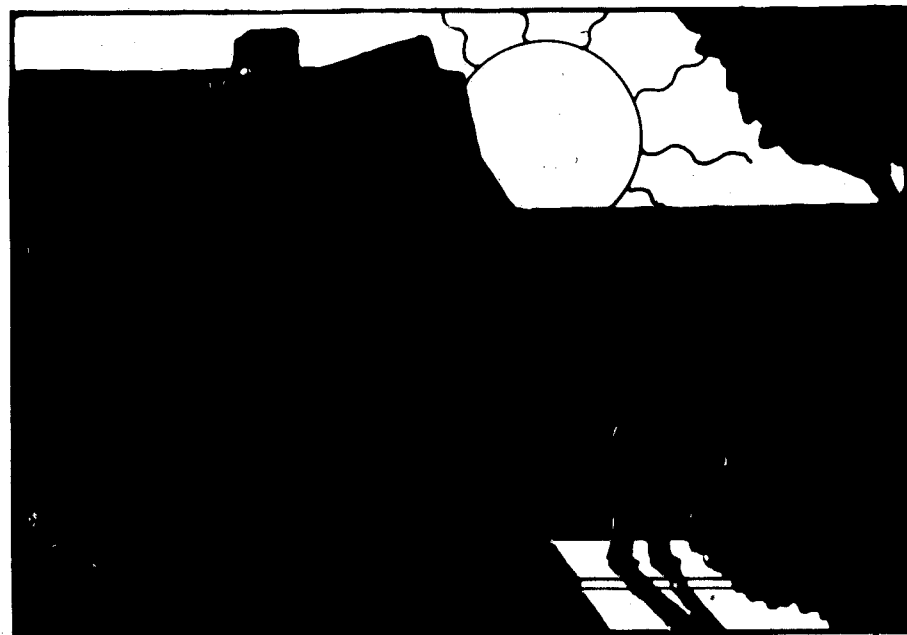




# O Sol



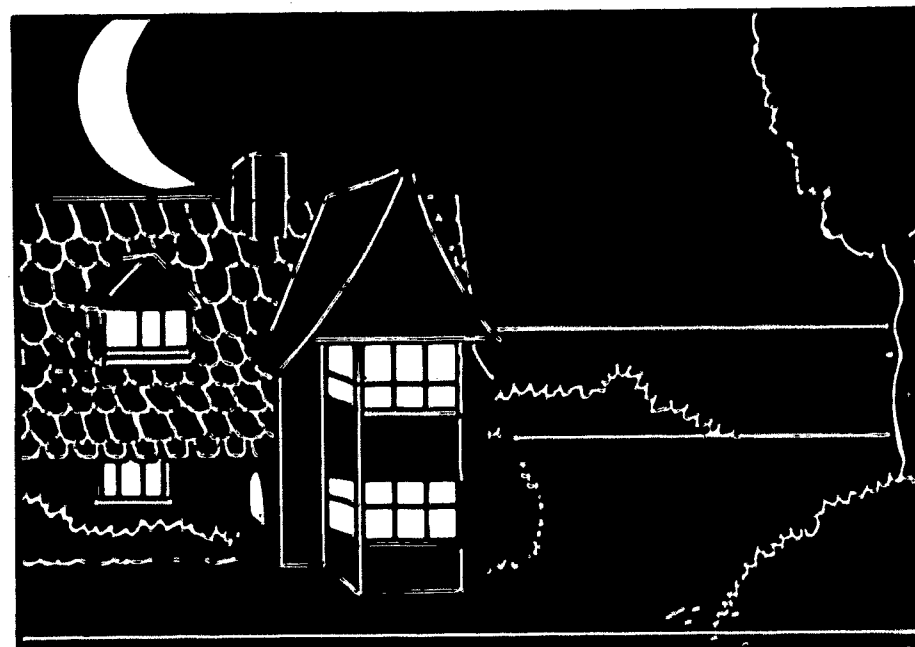
O Sol é fonte de luz e calor.



A luz do Sol provoca sombras.



De dia há luz do Sol.



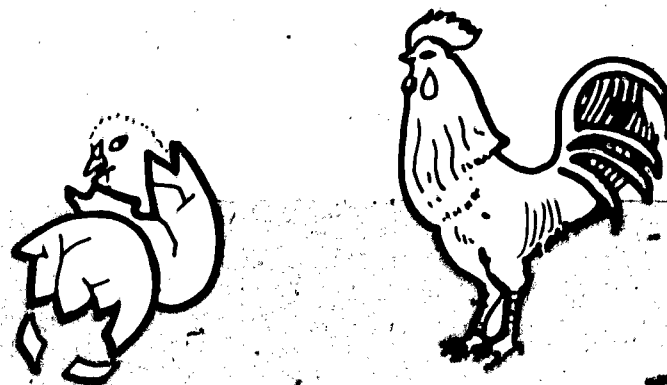
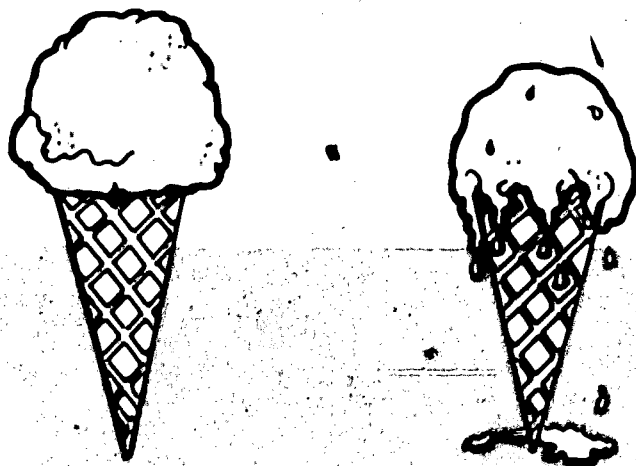
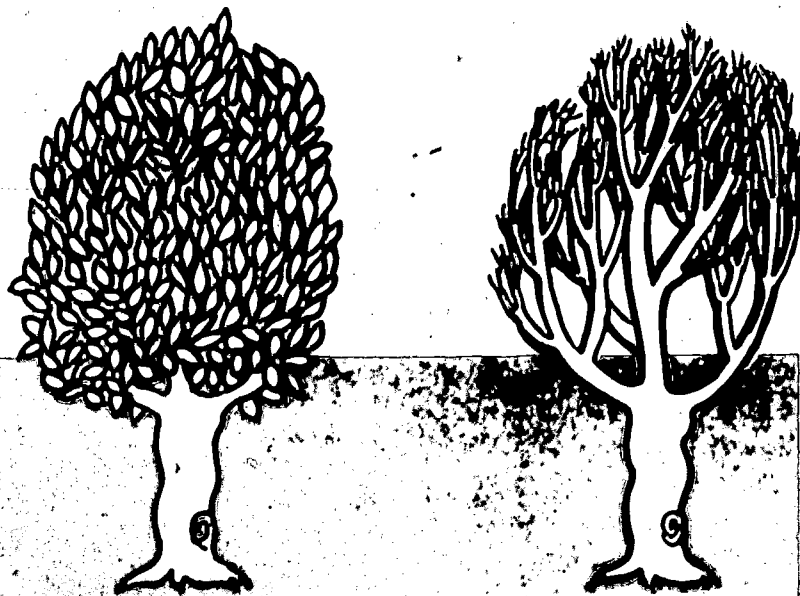
De noite não há luz do Sol.



50

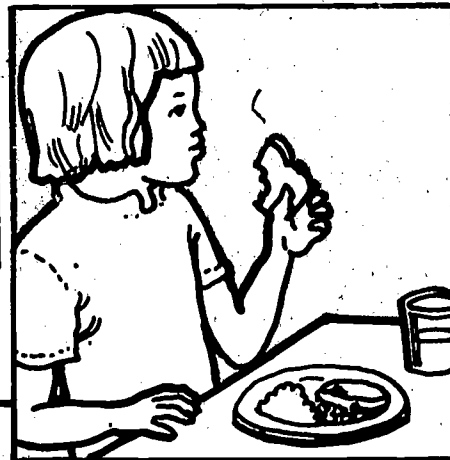
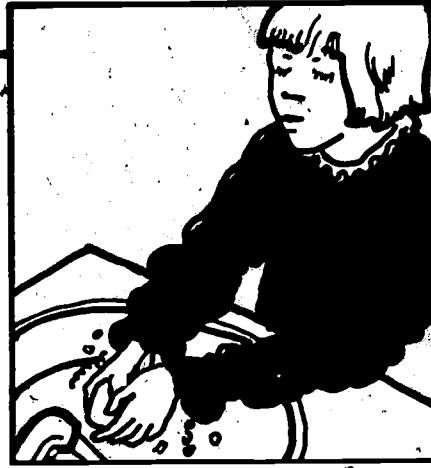


# Tudo Muda com o Tempo

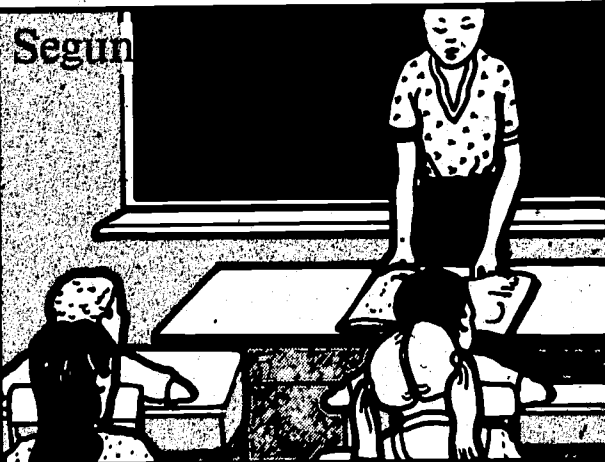
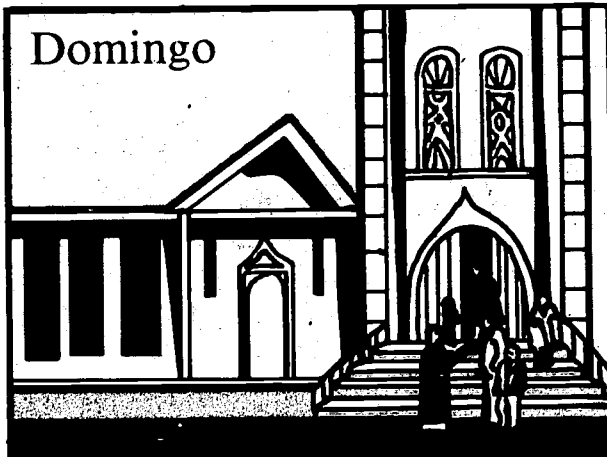




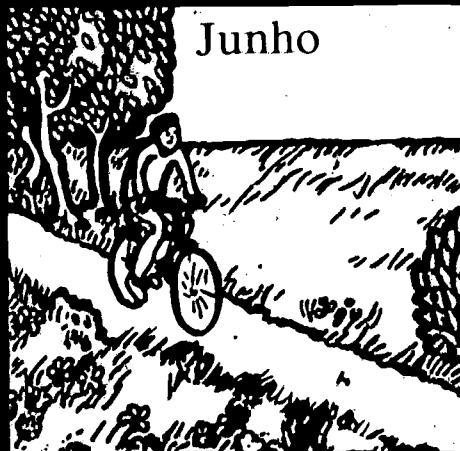
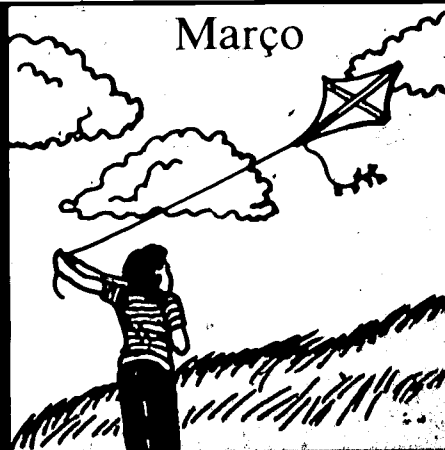
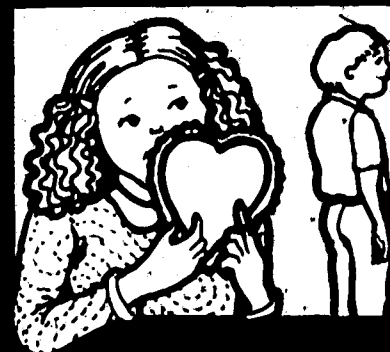
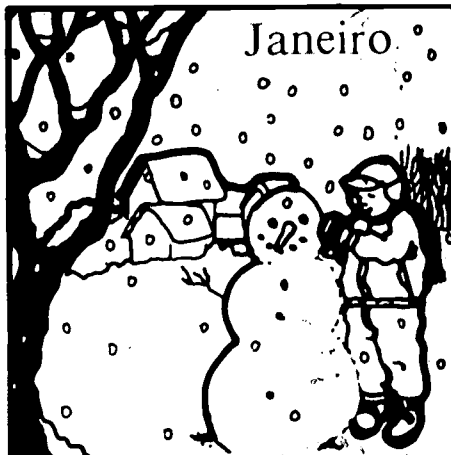
# Um Dia



# A Semana



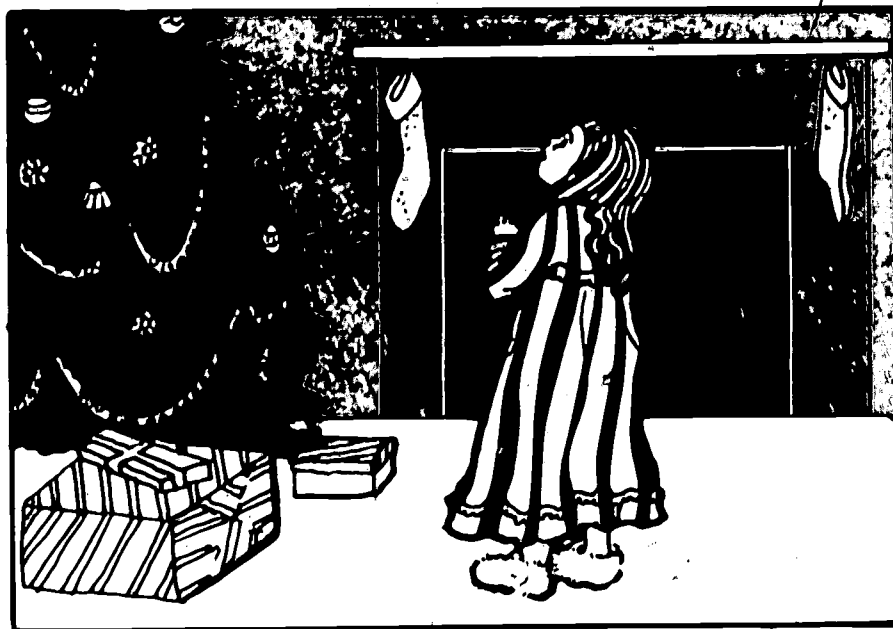
# Os Meses



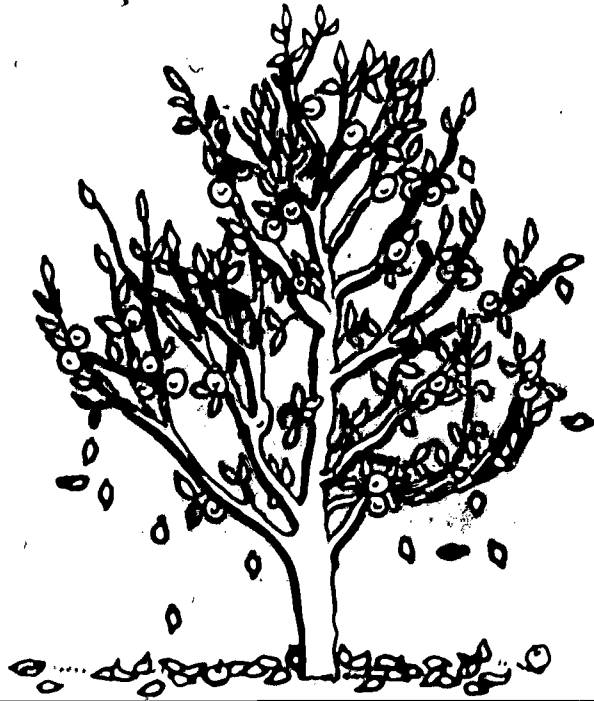
# O Ano



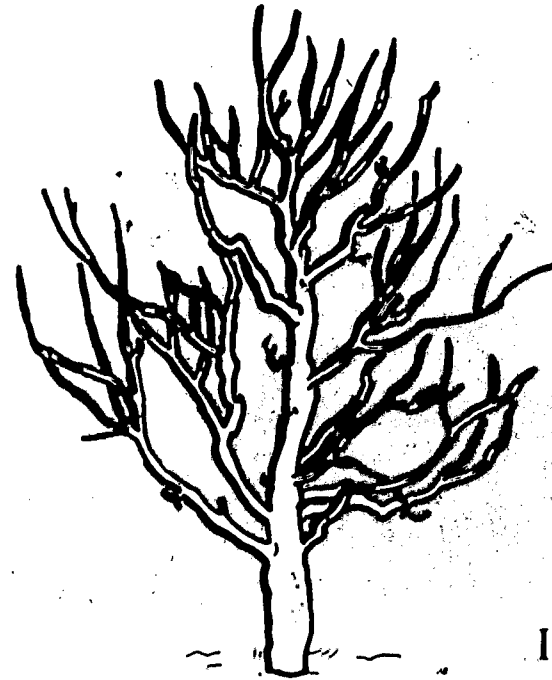
← Um ano →



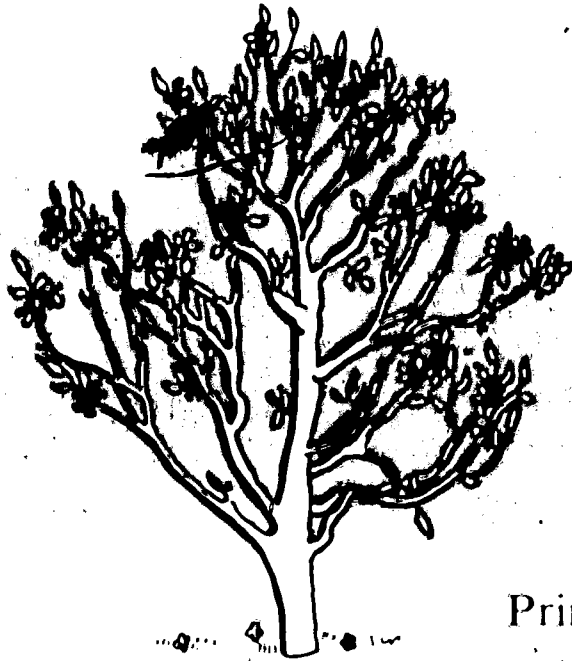
# As Estações do Ano



Outono



Inverno



Primavera



Verão

# Condições do Tempo



Às vezes faz calor...



...outras faz frio.

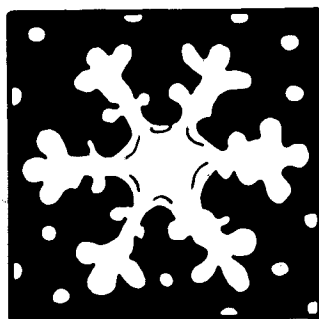


Às vezes faz vento...

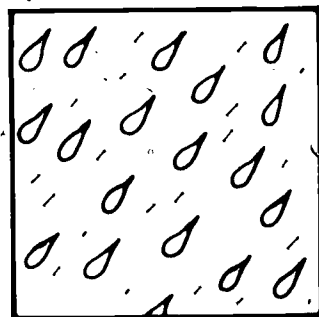


...outras chove.

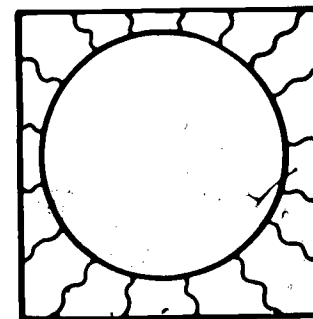




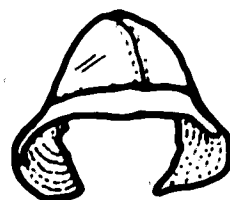
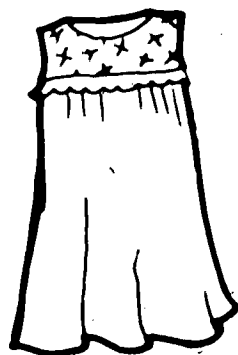
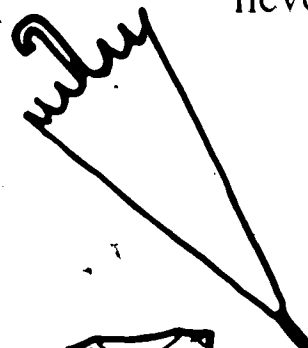
neve



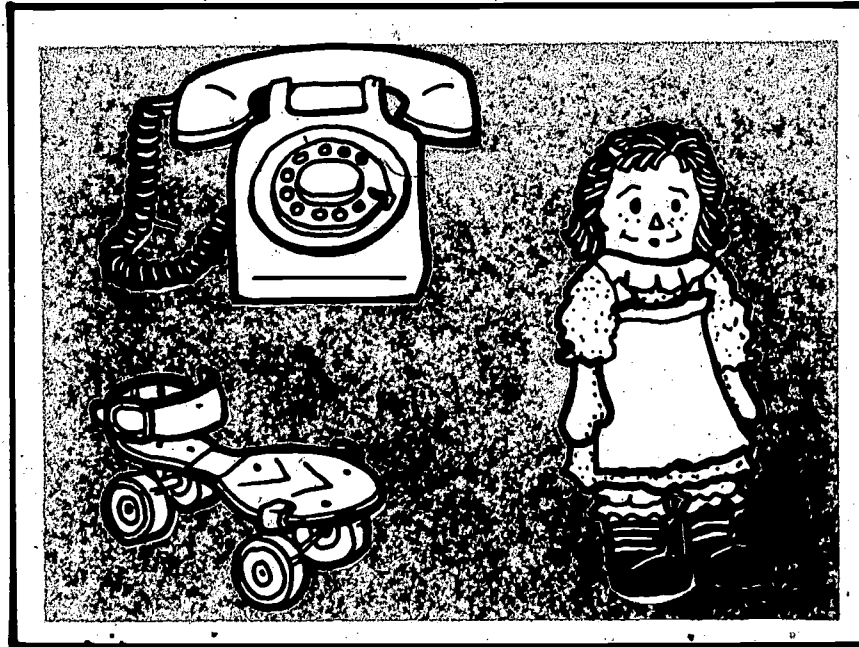
chuva



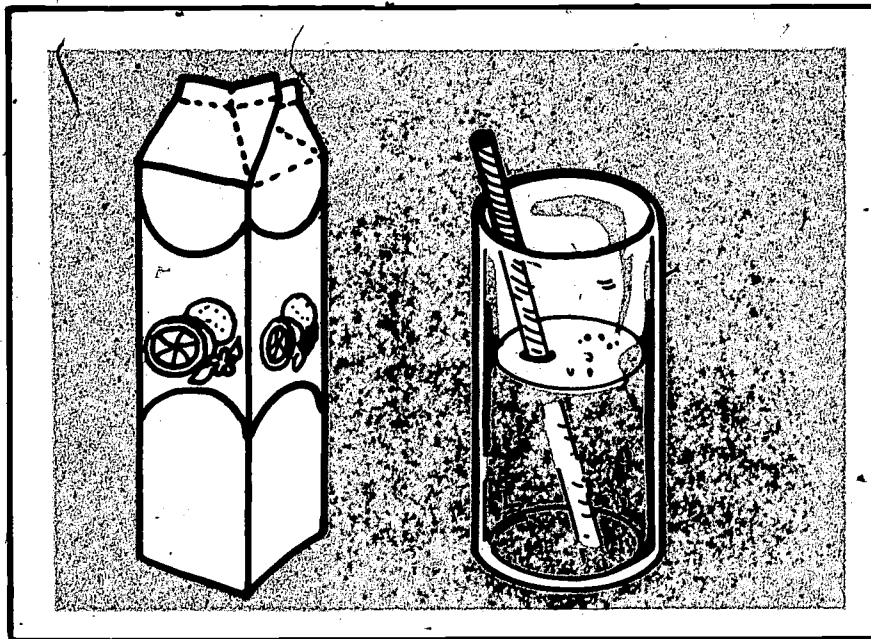
sol



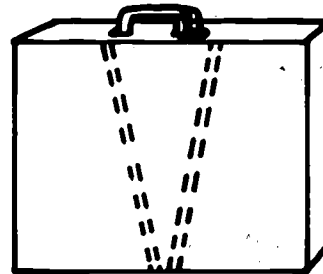
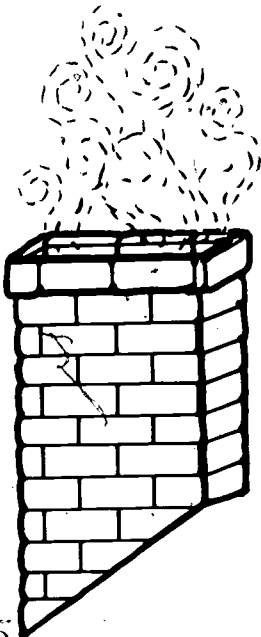
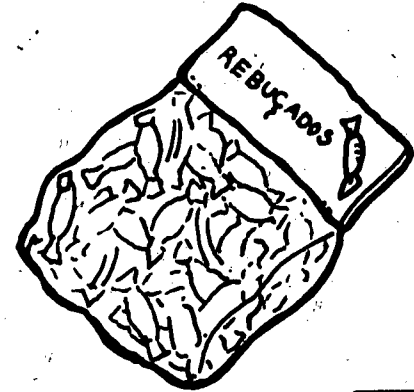
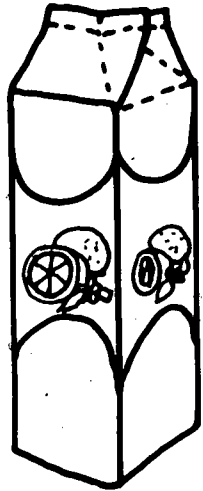
# Sólidos, Líquidos e Gases,



Algumas coisas são sólidas, outras líquidas e outras gasosas.







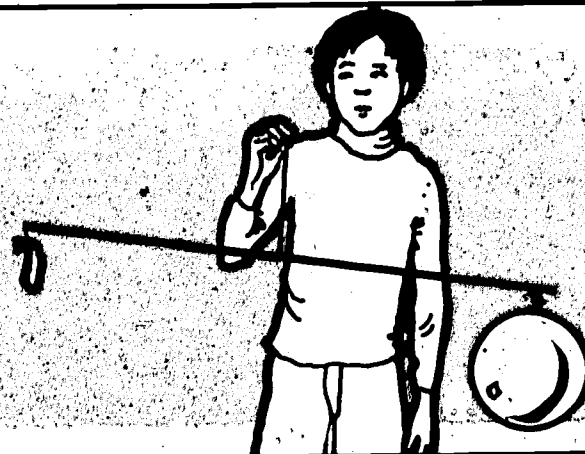
# A Matéria Tem Propriedades Diferentes

Alguns sólidos flutuam.

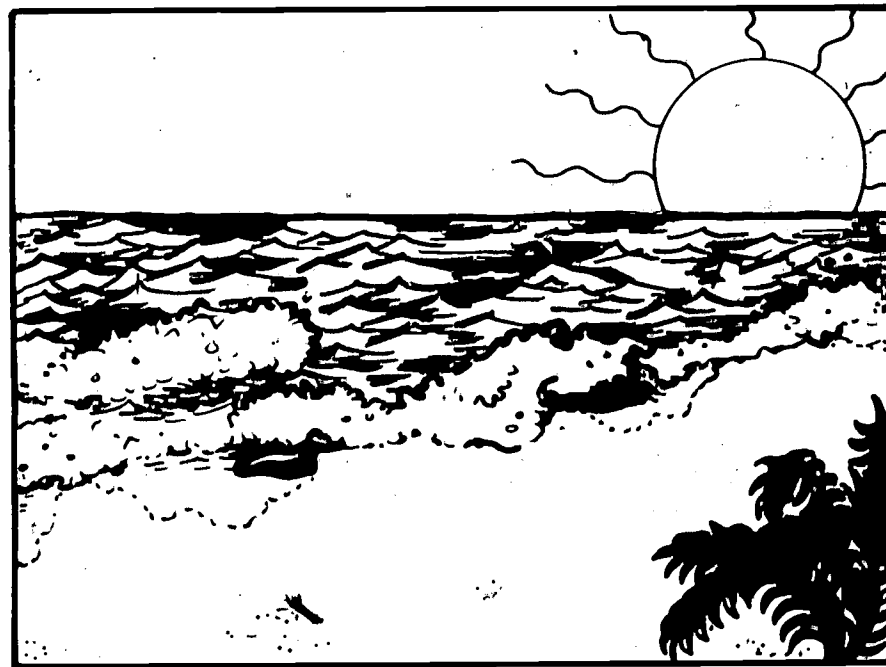
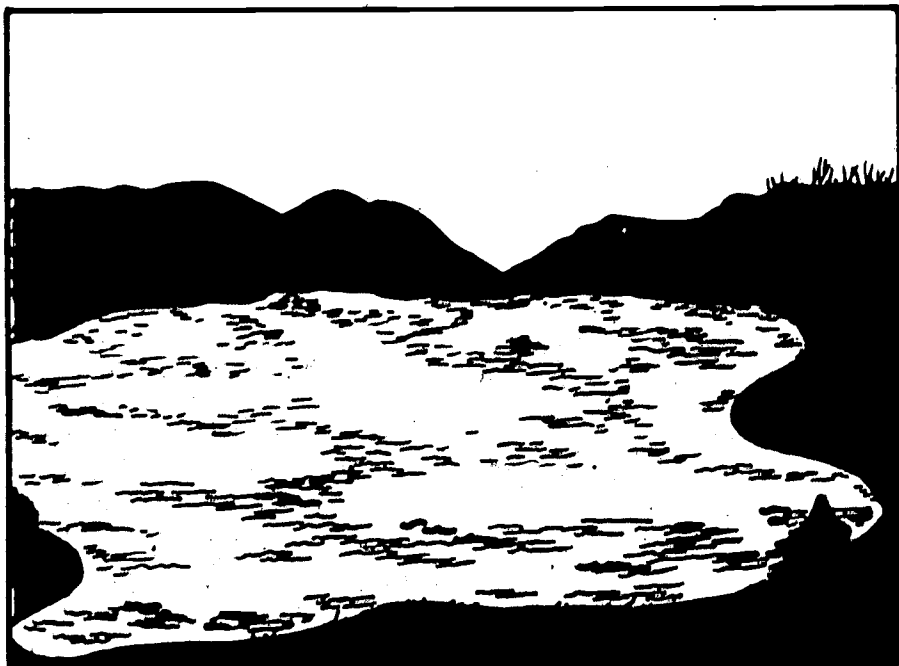


Os líquidos mudam de forma.

Os gases têm peso.



# A Água

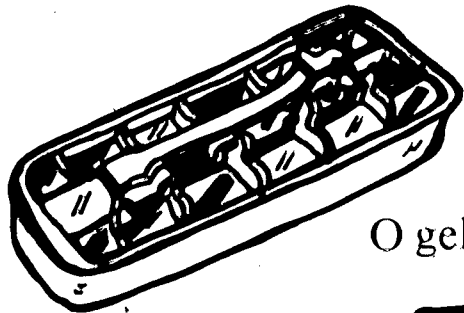


A água existe no mar nos lagos e nos rios.

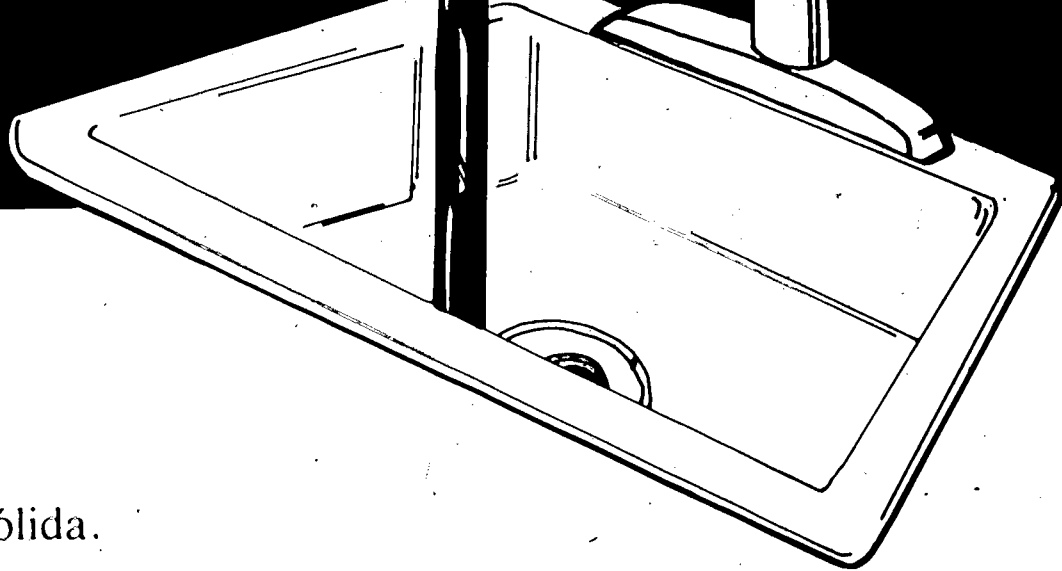


129

130



O gelo é água sólida.



# Utilidade da Água



A água serve para beber é cozinhar...



alimenta as plantas e animais...

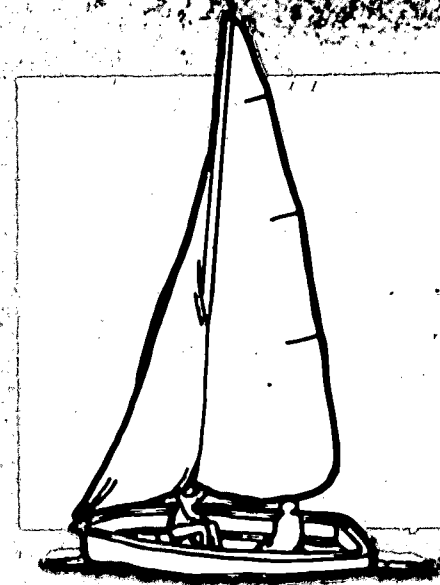
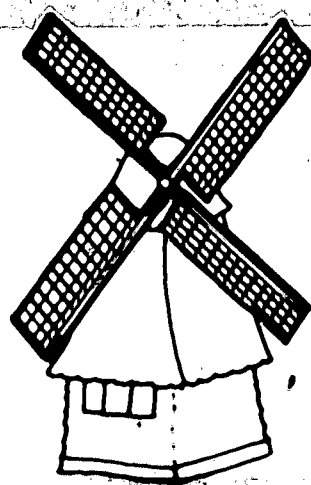
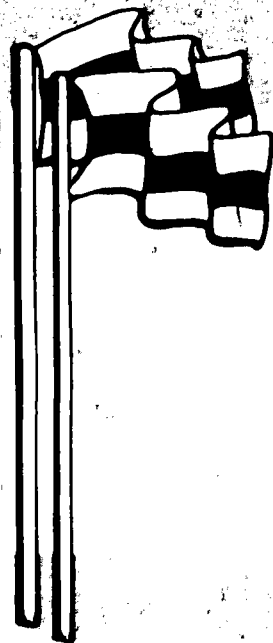


limpa...

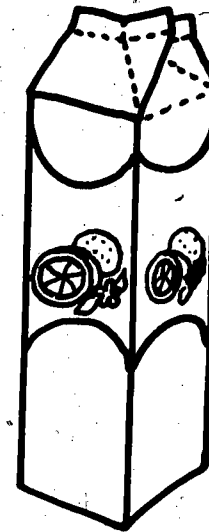
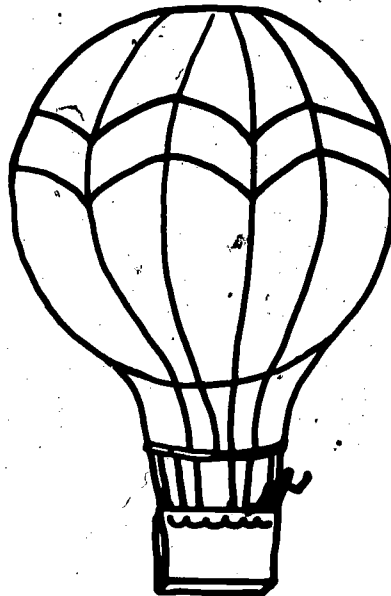
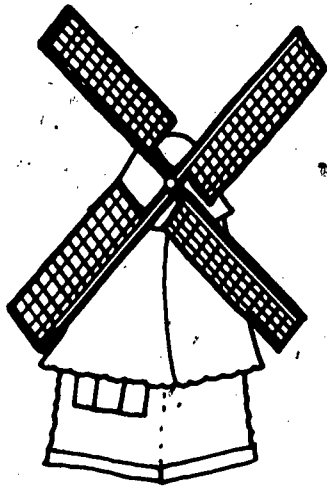
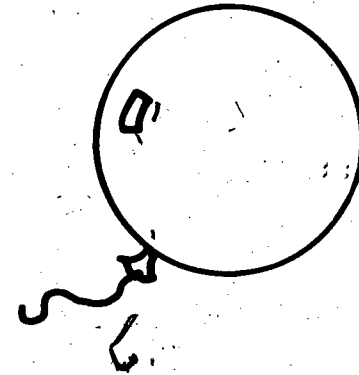
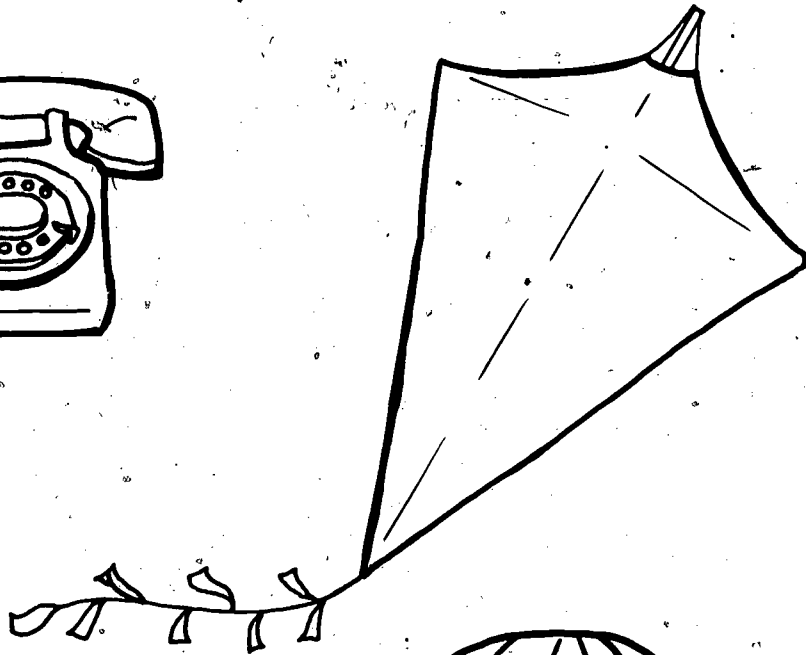


e serve para nos divertirmos.

# O Ar



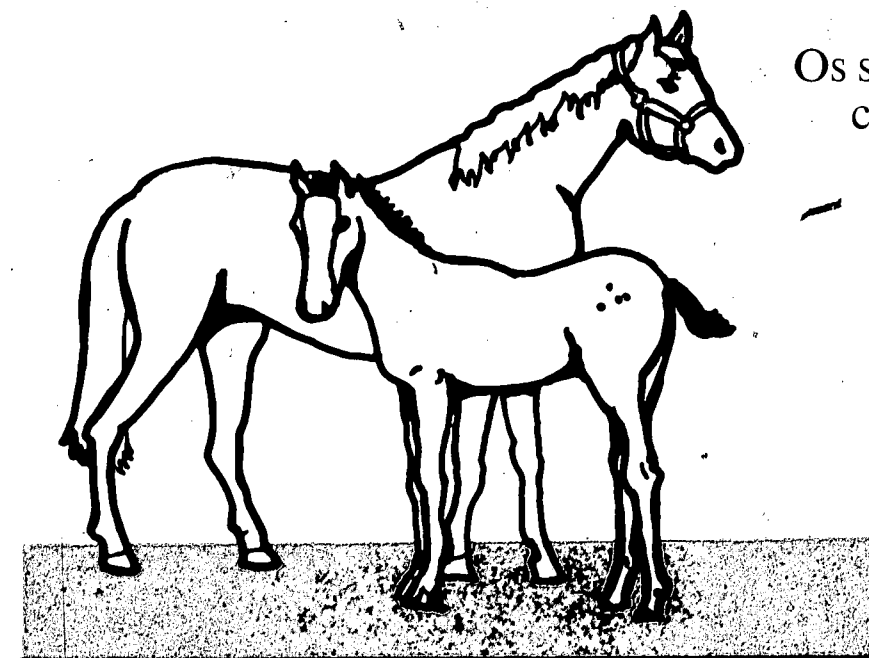
O vento faz mover as coisas.



137

138

# Seres Vivos e Seres sem Vida



Os seres vivos  
crescem.



Para isso necessitam:



alimento...

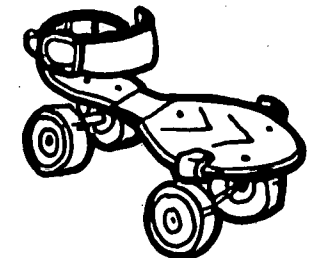
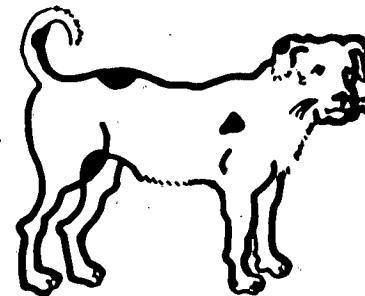
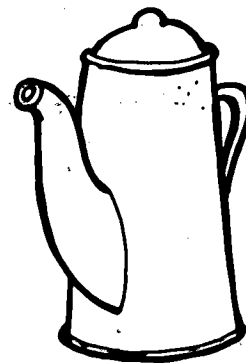
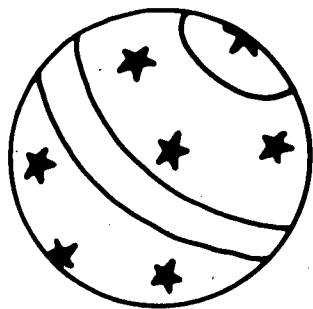
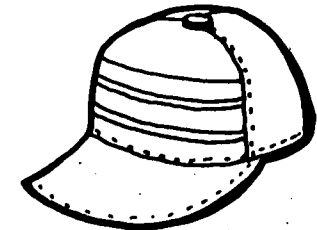
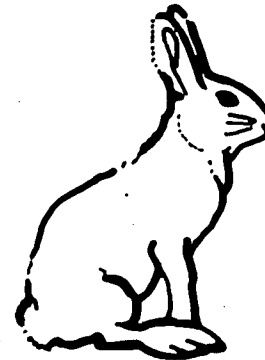
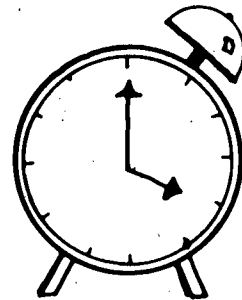
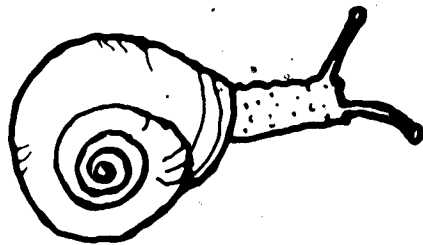
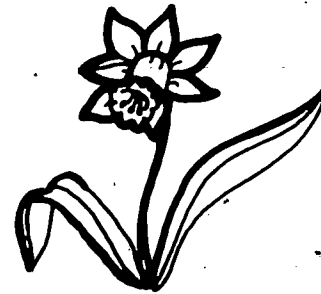
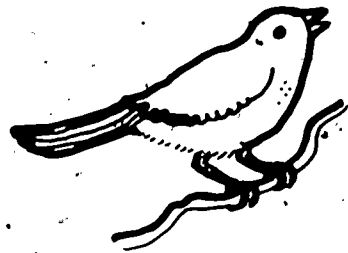


luz...

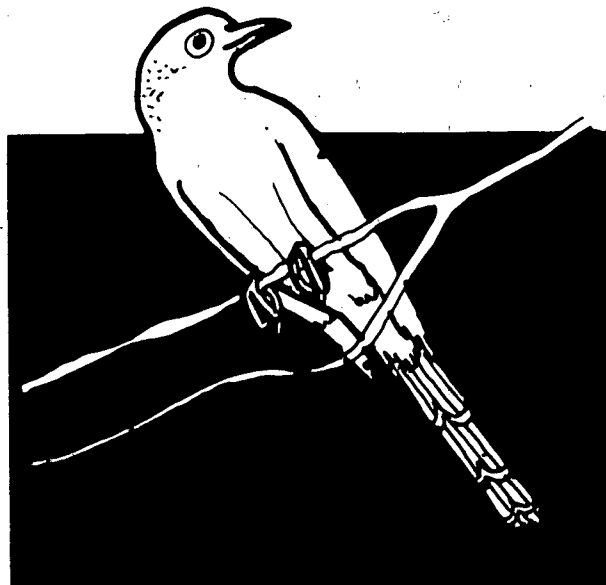


e ar.

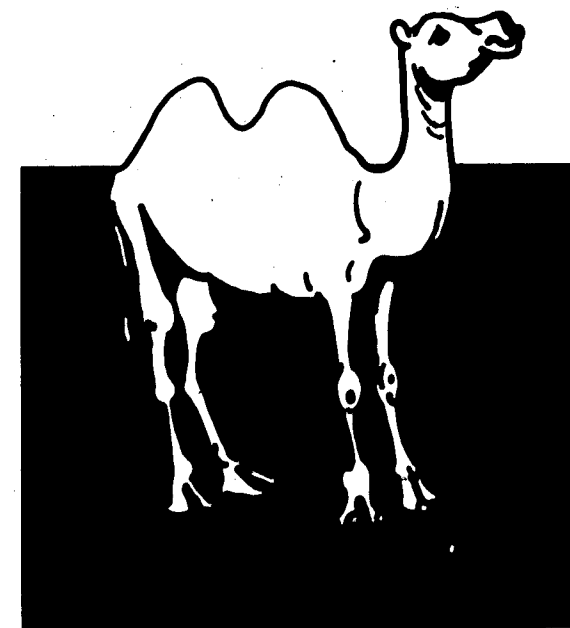
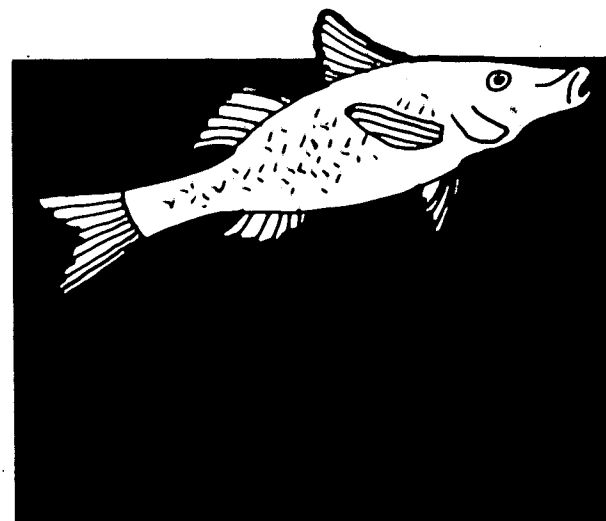


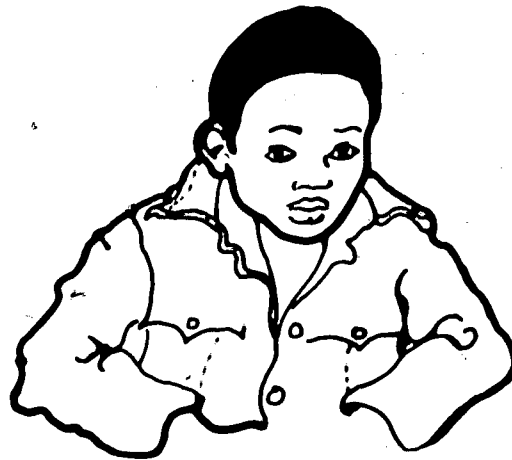
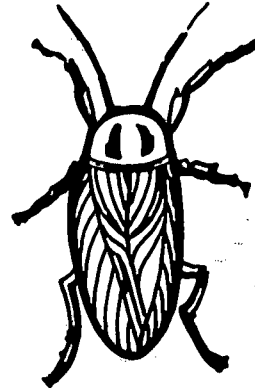
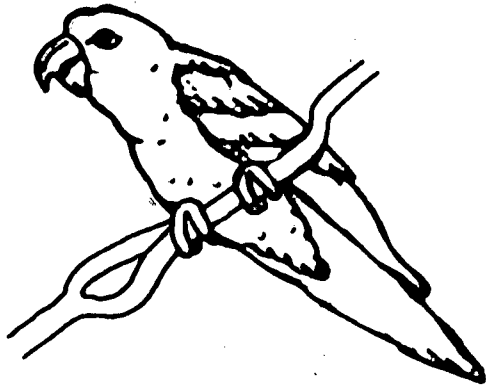
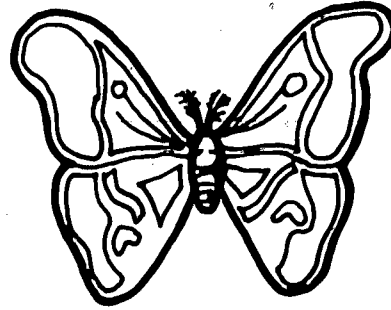
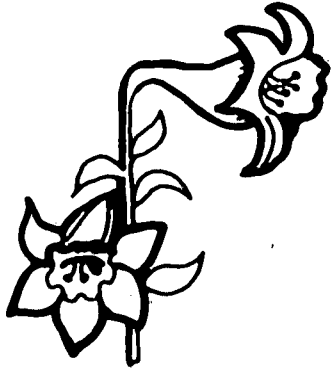


# Seres Vivos: Animais e Plantas



Os animais e as plantas são seres vivos.





70

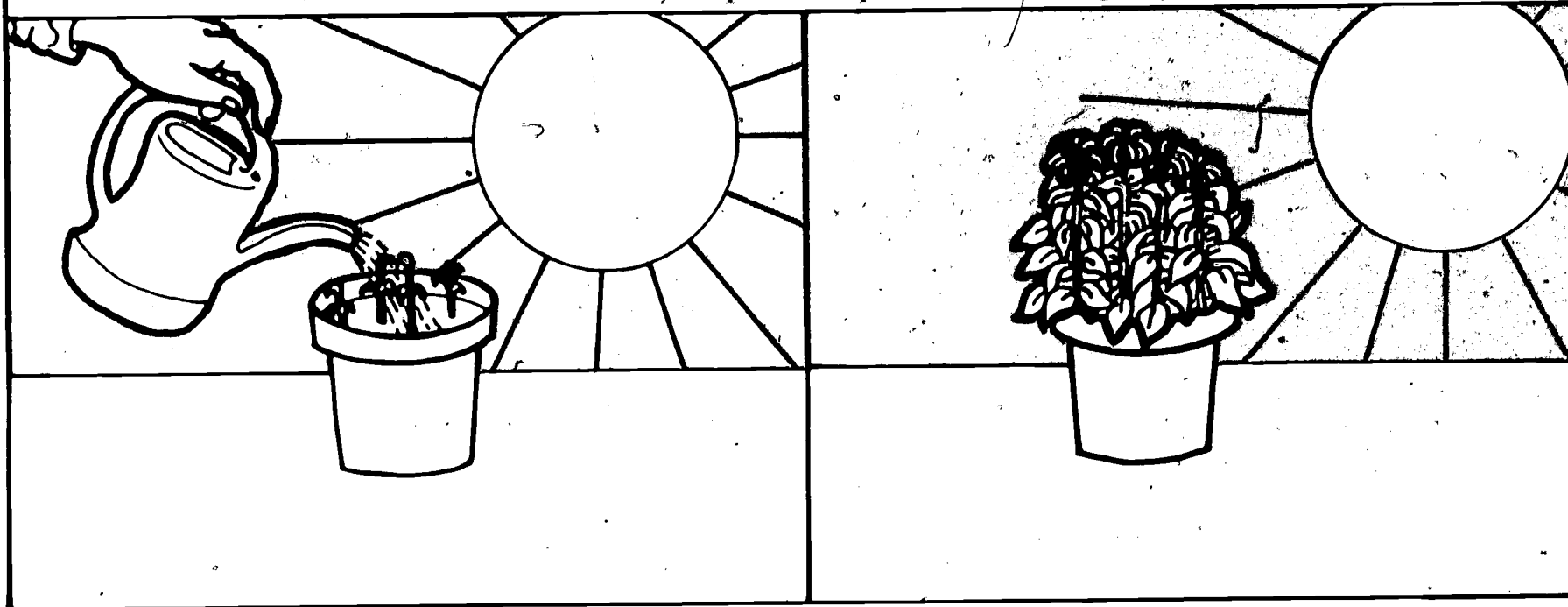
145

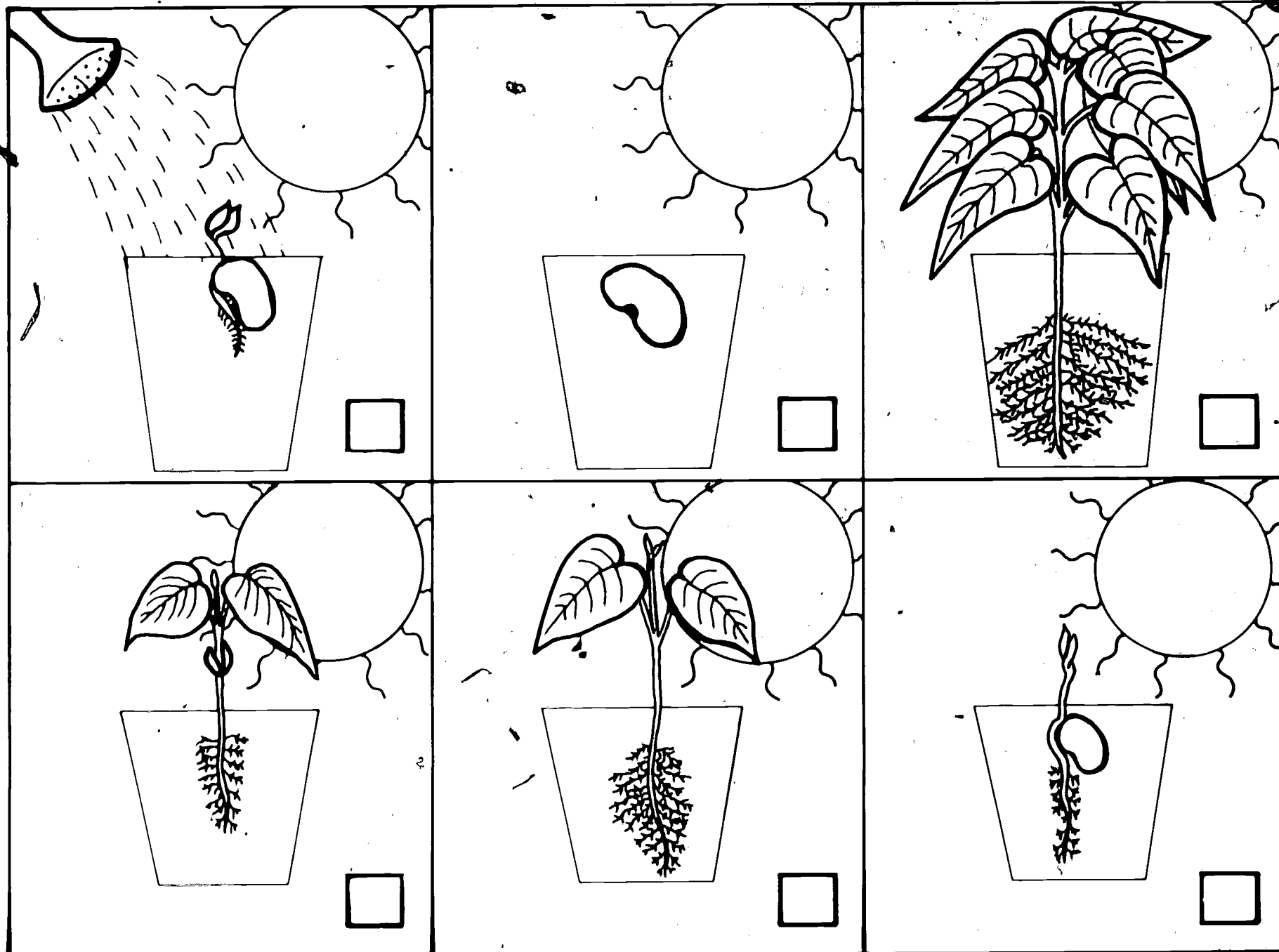
146

# Nascimento e Crescimento de uma Planta



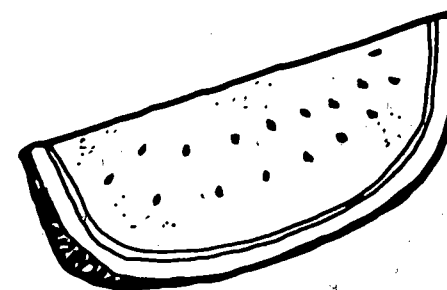
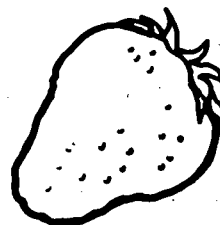
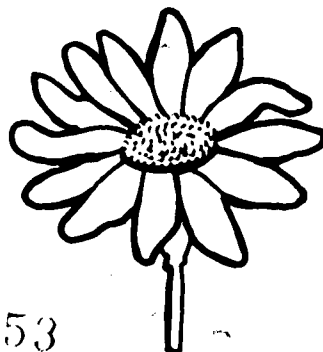
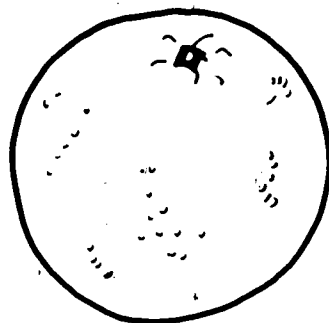
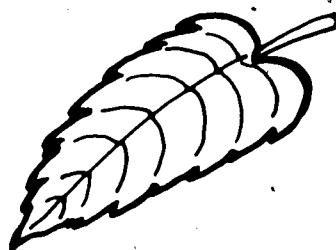
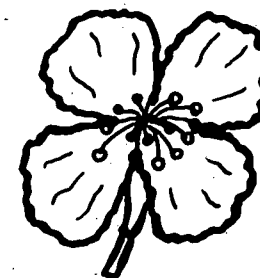
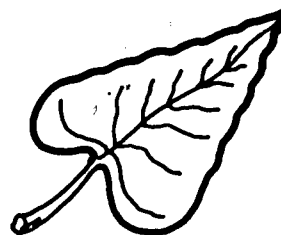
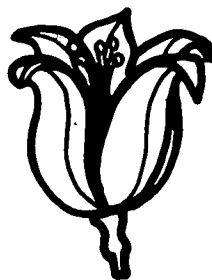
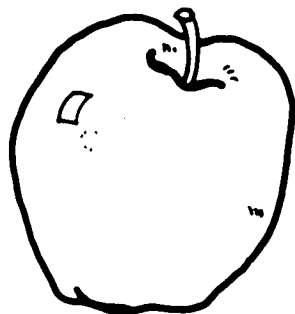
Para nascer e crescer, as plantas precisam de água, luz e ar.





# Partes das Plantas





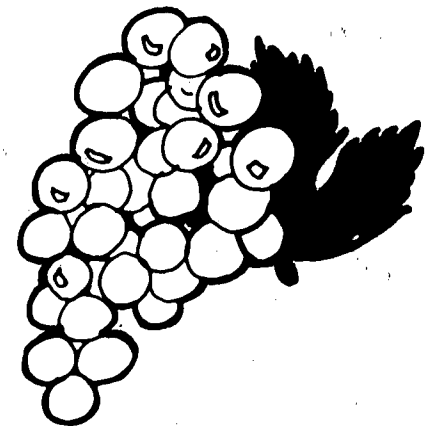
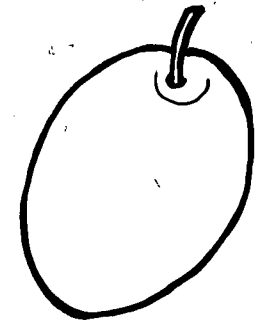
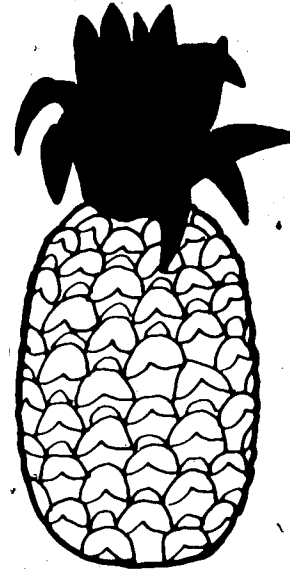
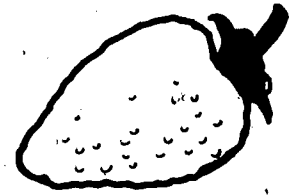
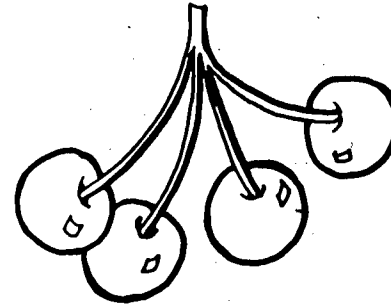
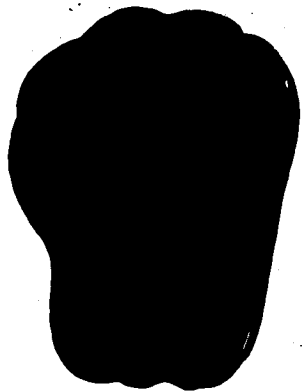
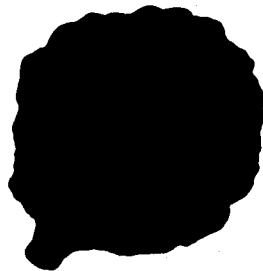
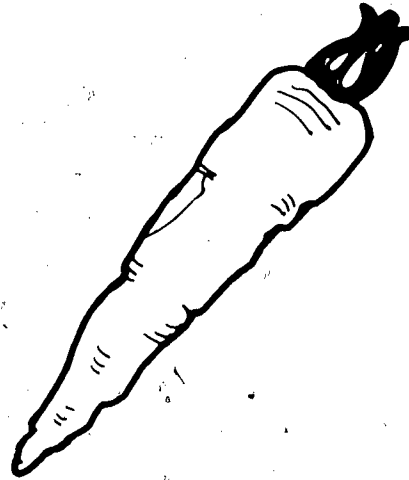
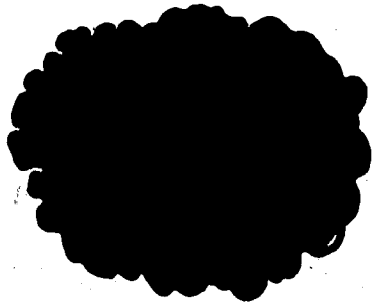
74

153

Colorar as folhas de verde, as flores de amarelo e os frutos de vermelho.

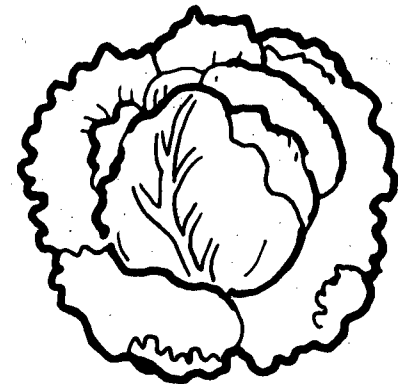
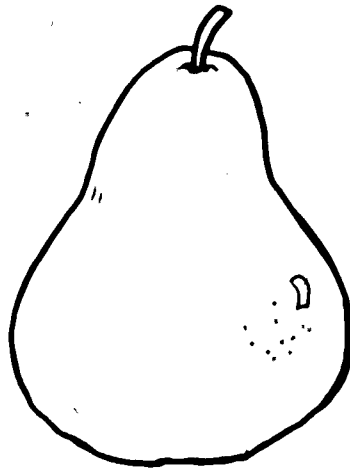
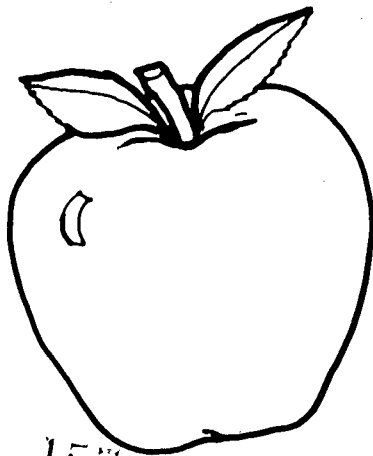
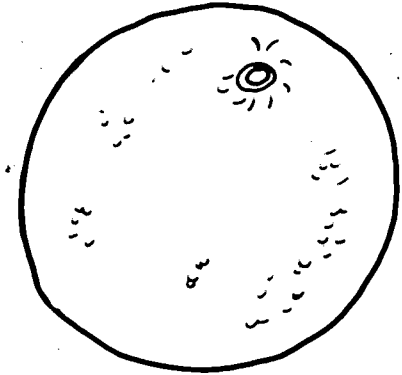
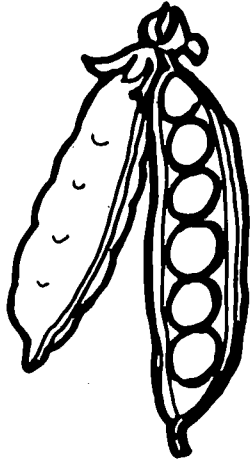
154

# Frutos e Hortaliças



Estas partes das plantas servem para a nossa alimentação.

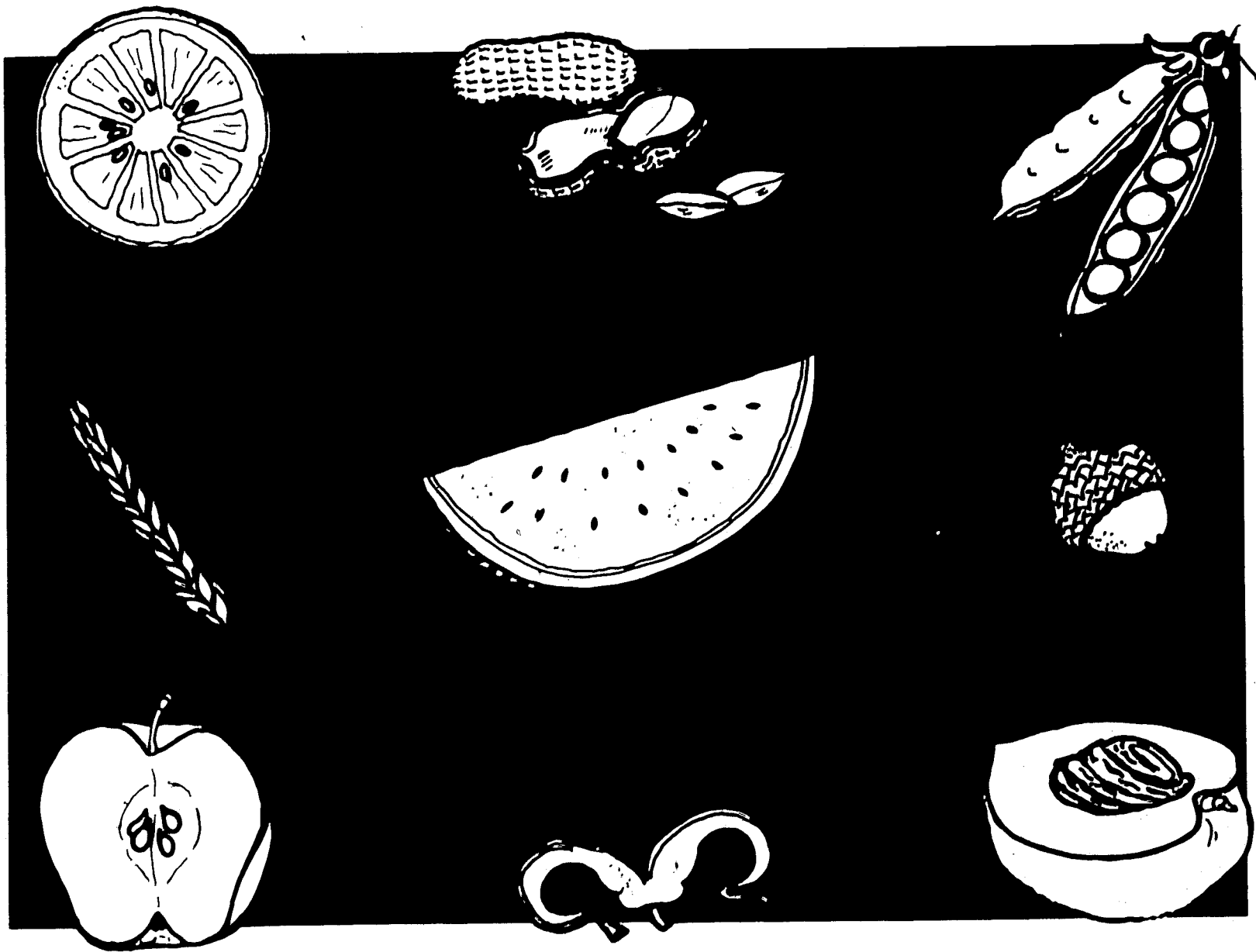


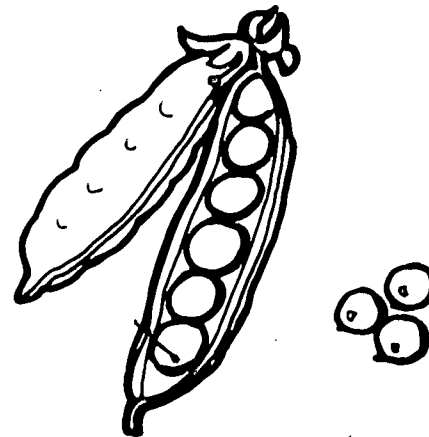
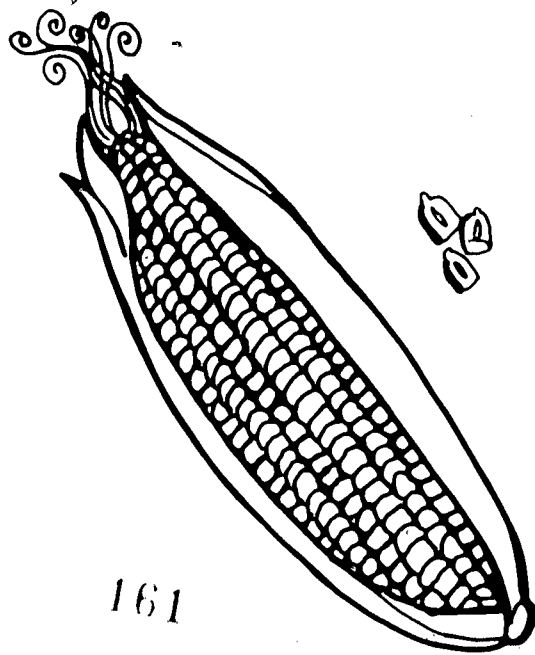
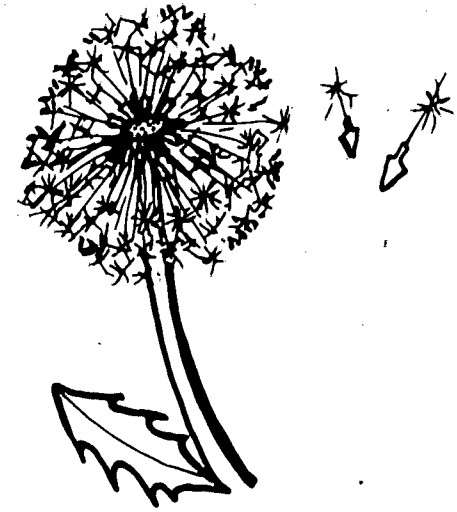
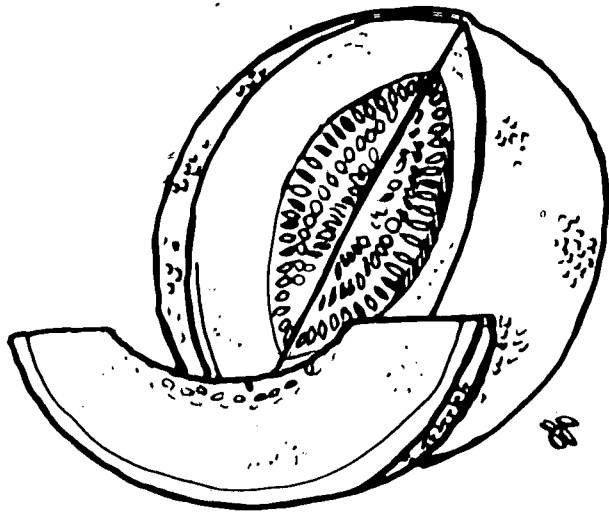


157

158

# Sementes

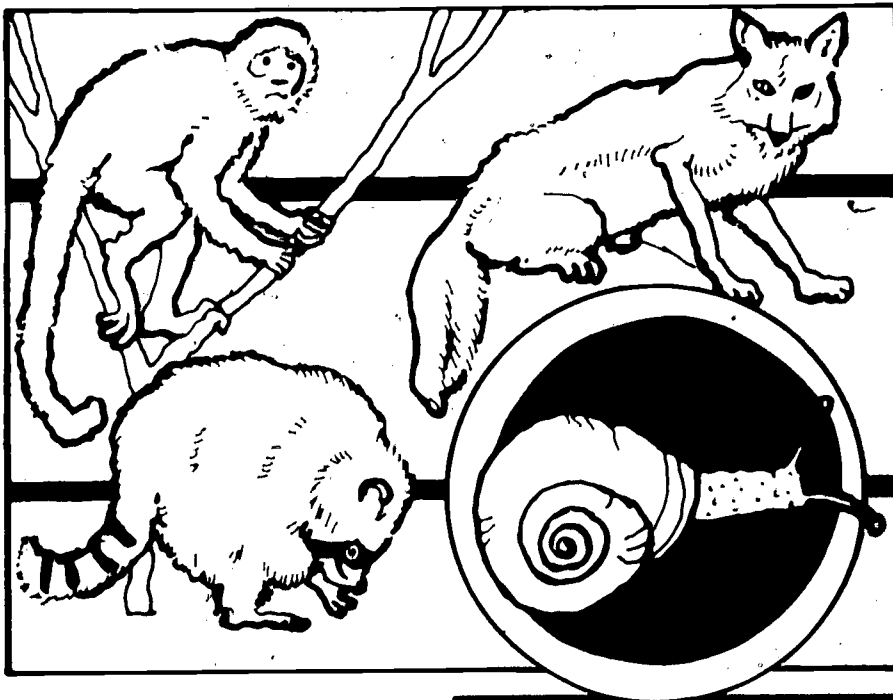


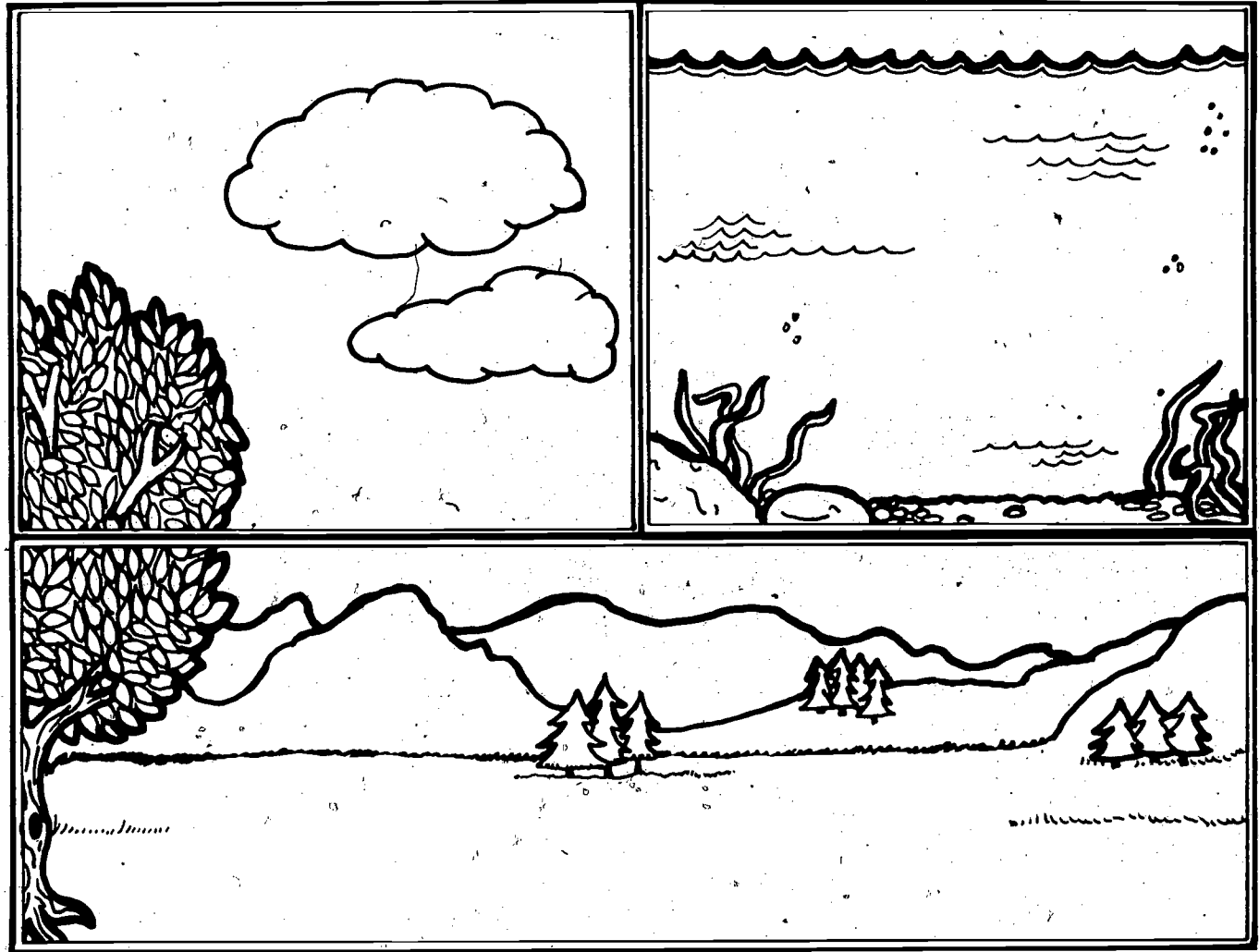
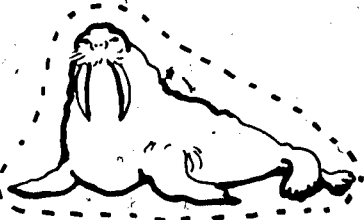


161

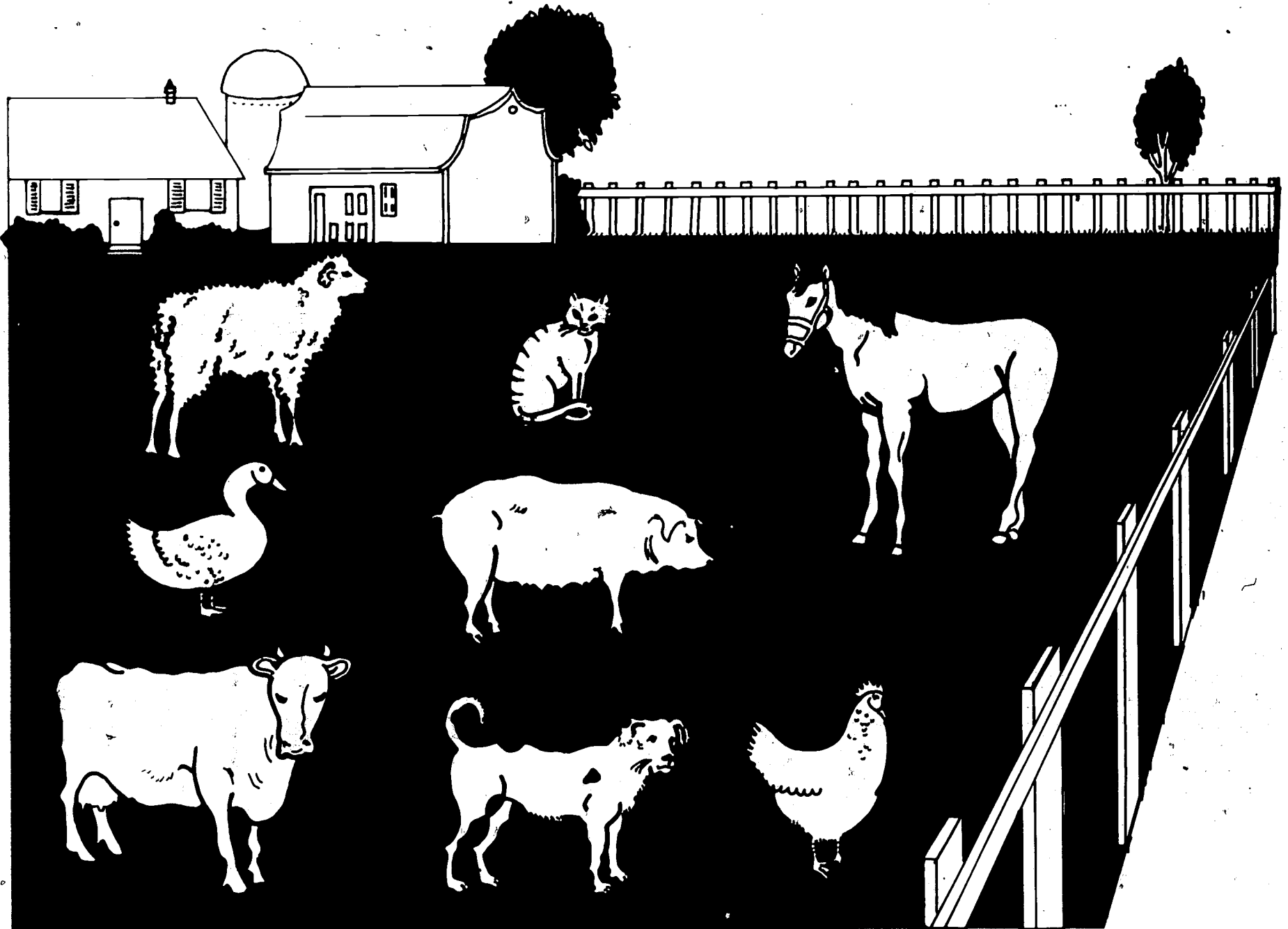
162

# Animais e Seus Ambientes.



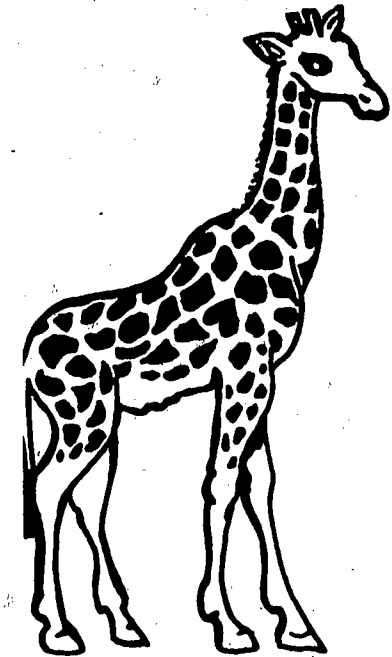
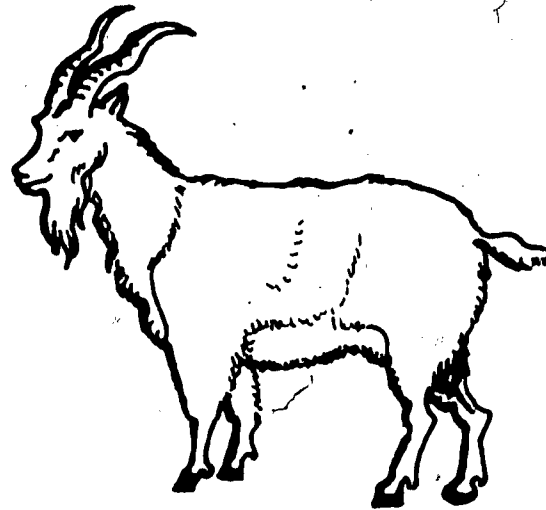
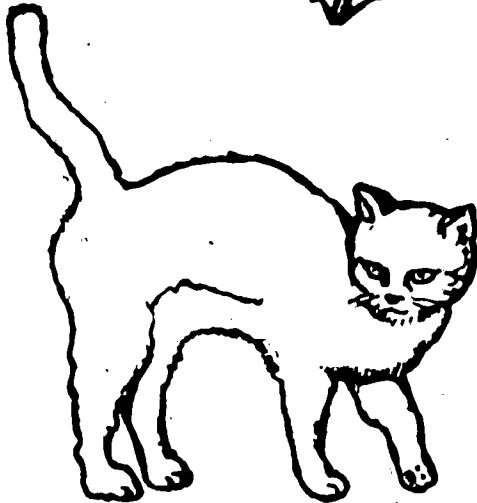
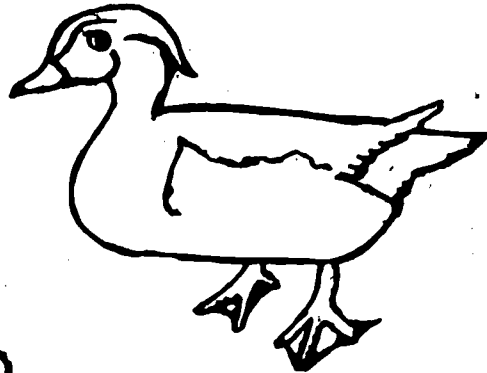
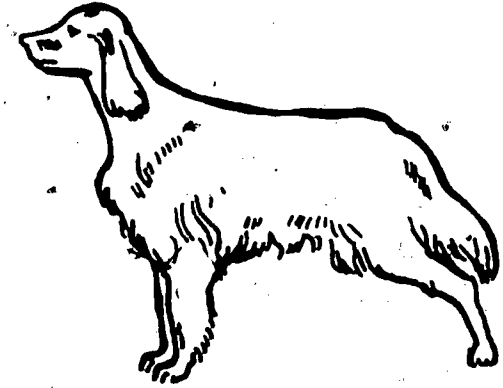
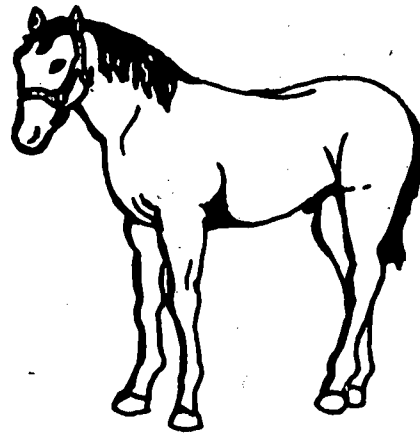
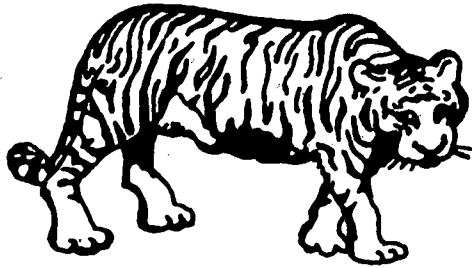


# Animais Domésticos



167

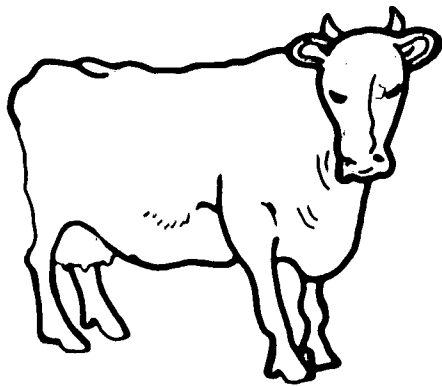
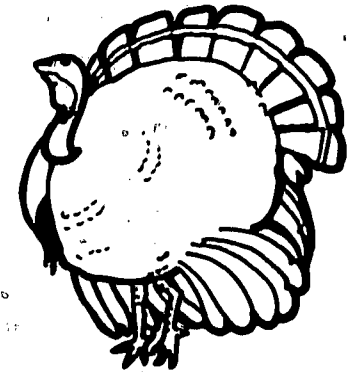
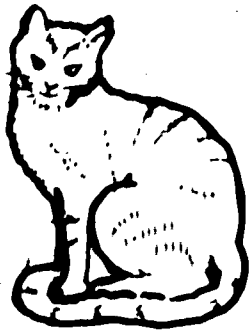
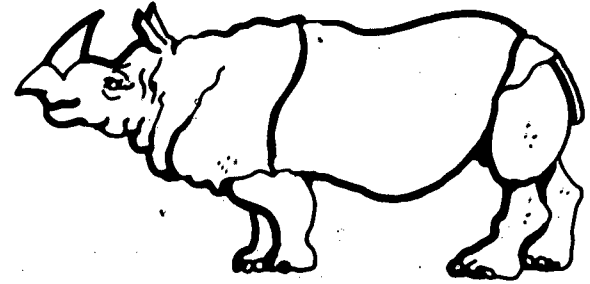
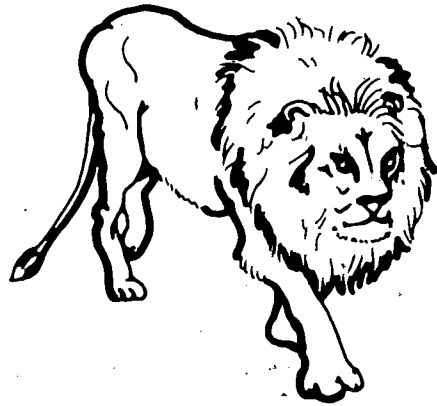
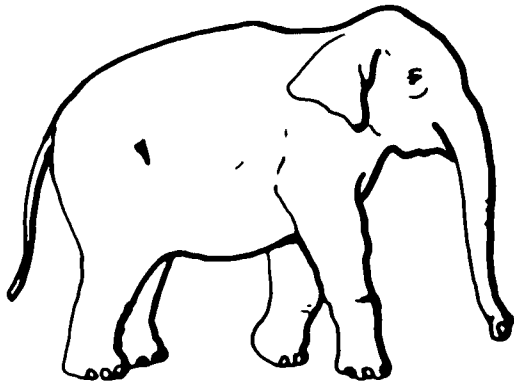
168



# Animais Selvagens

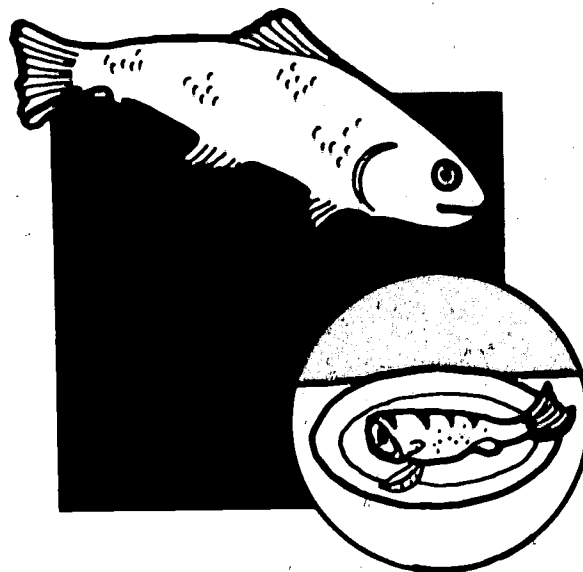
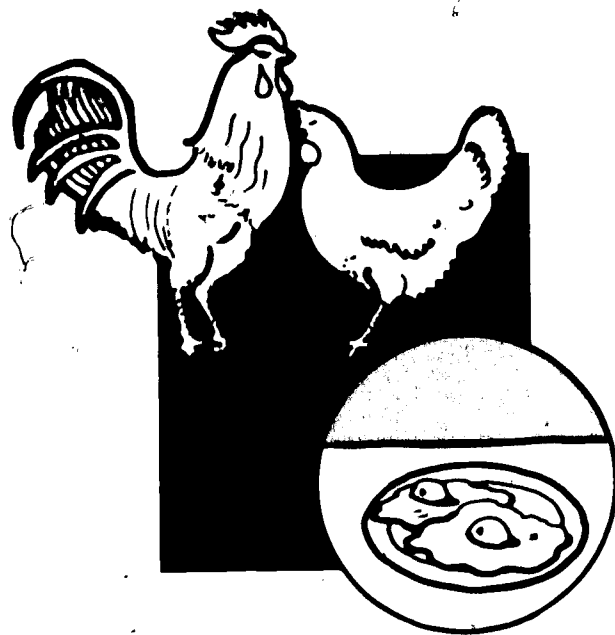
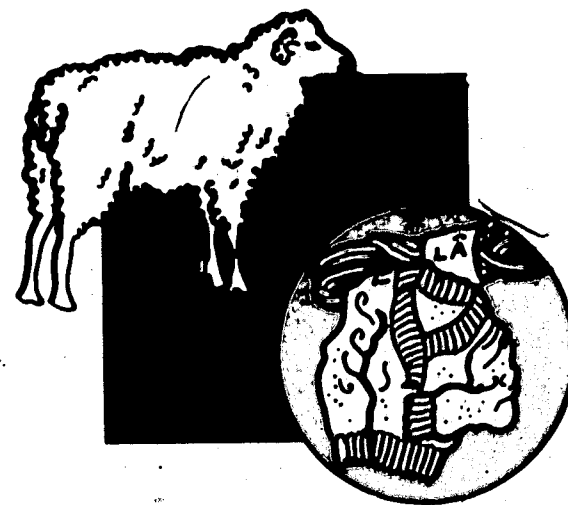
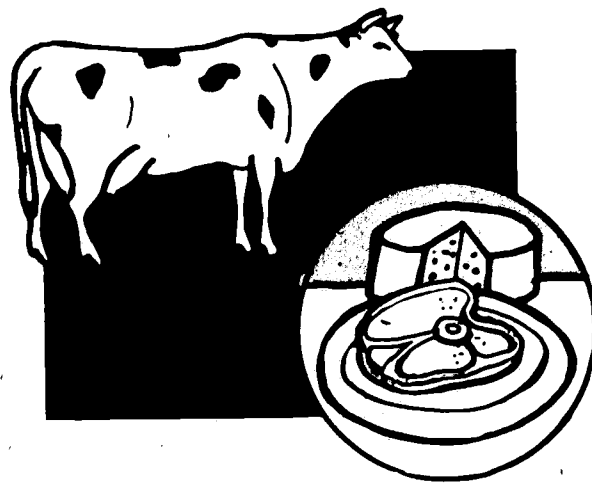


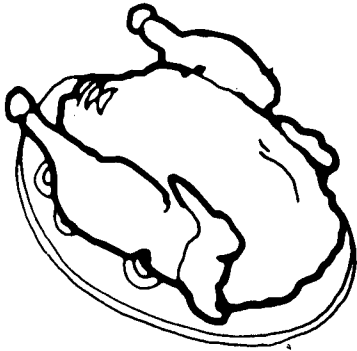




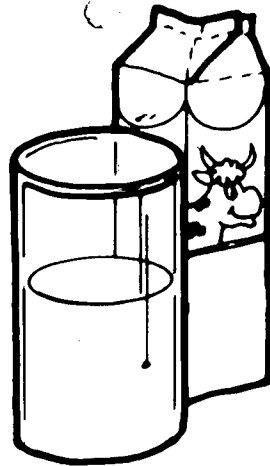
# Animais Úteis

Alguns animais são úteis ao homem.

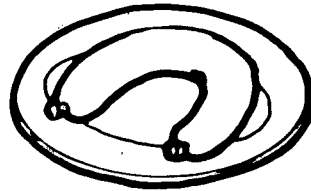




1



2



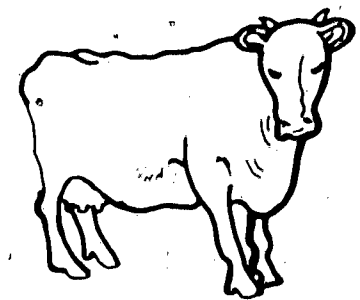
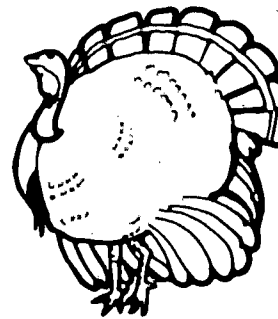
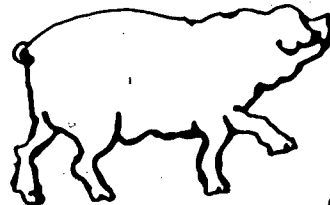
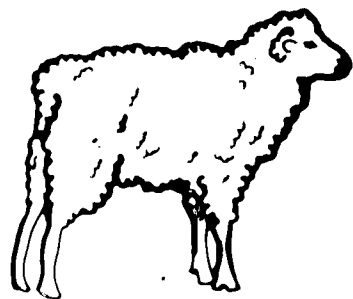
3



4



5



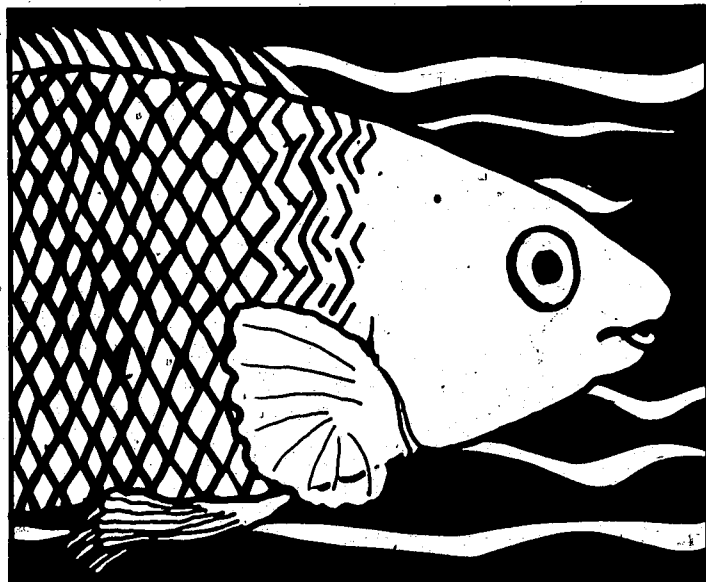
# O Corpo dos Animais Está Protegido por...



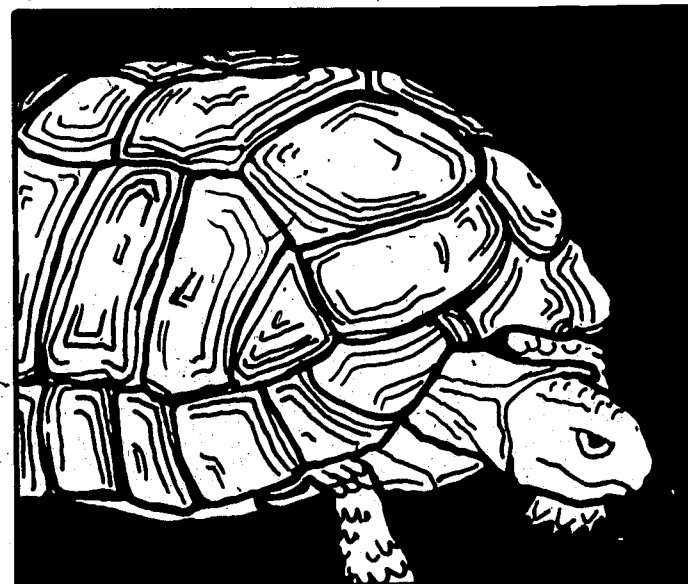
pêlos



penas



escamas



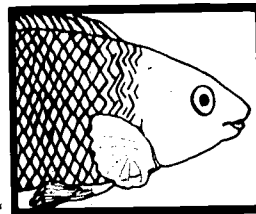
crostas



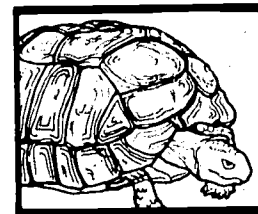
pêlos



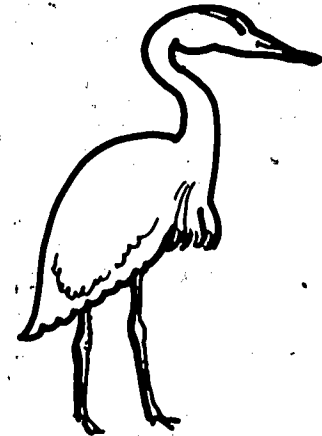
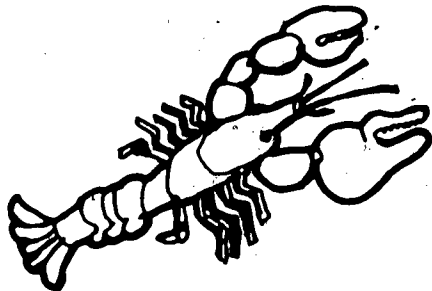
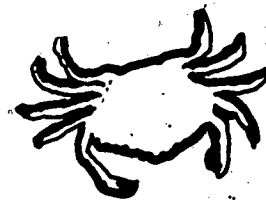
penas



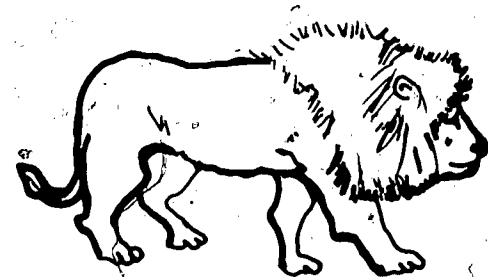
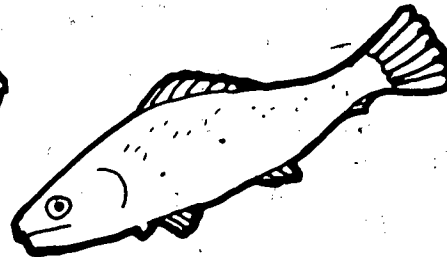
escamas



crostas

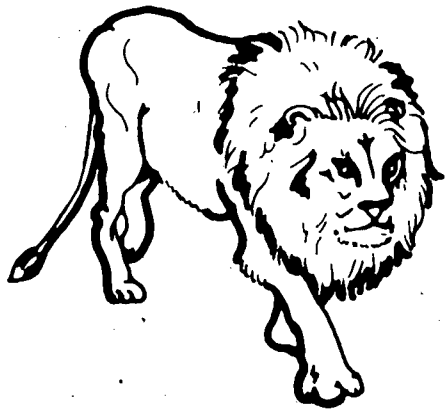


181

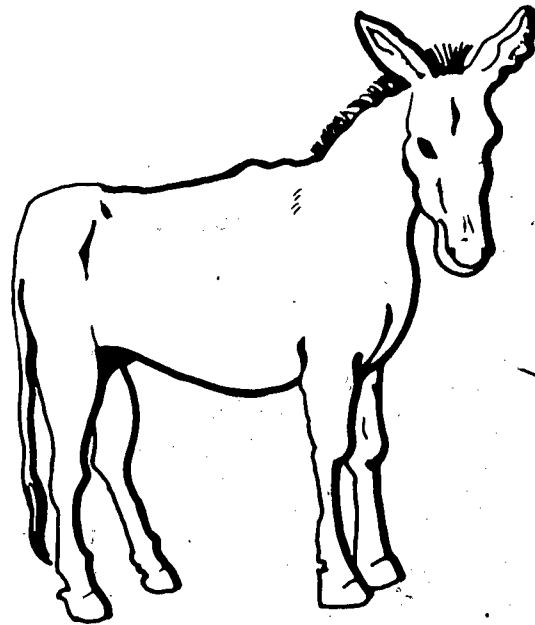


182

# Movimentos dos Animais



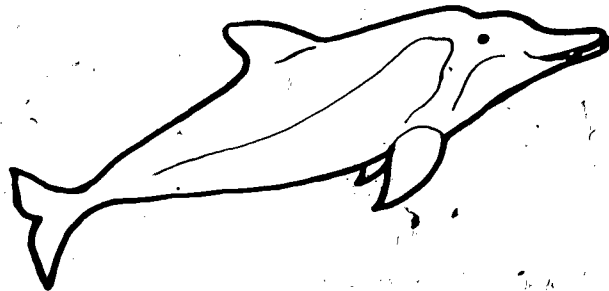
andar



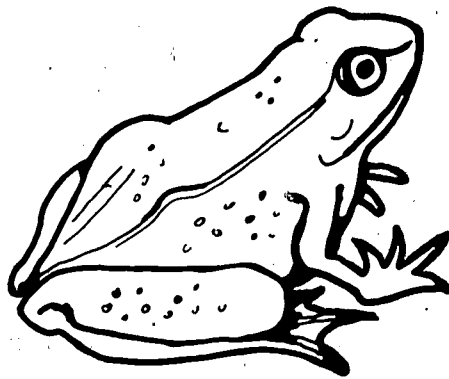
trotar



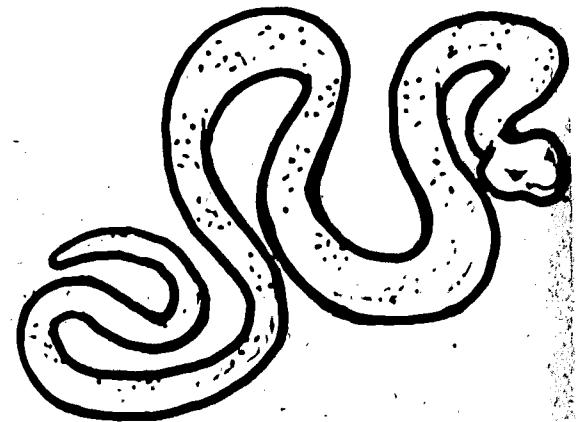
voar



nadar

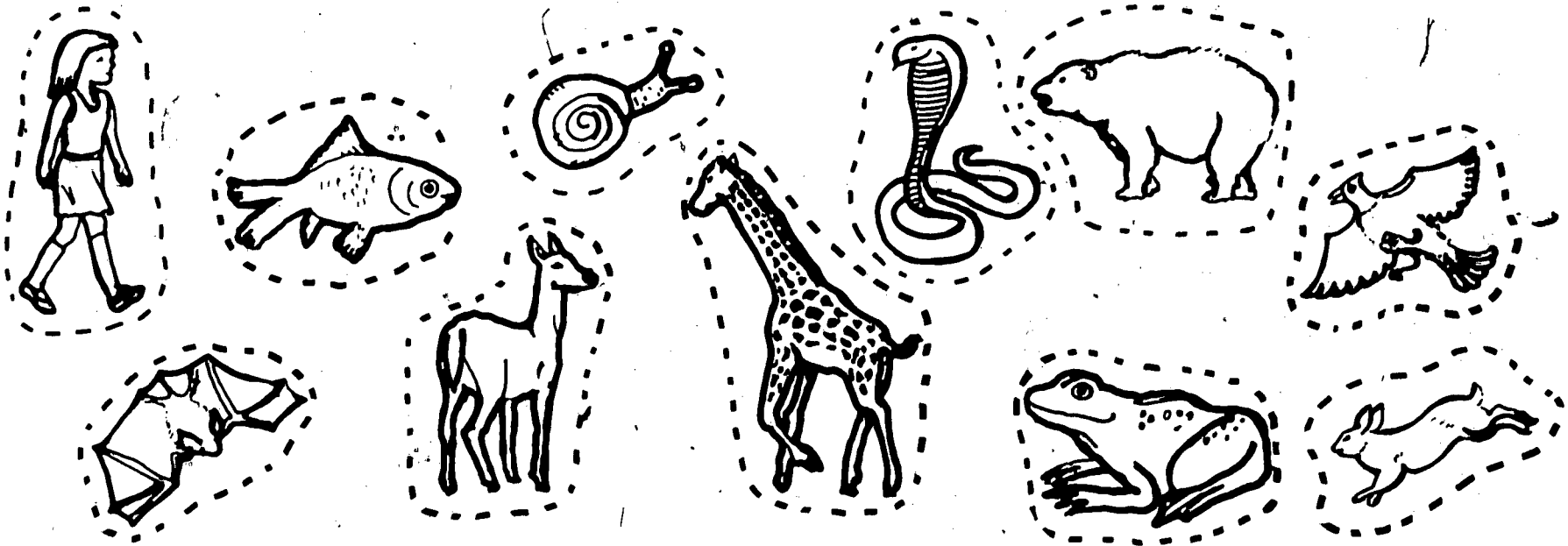


saltar



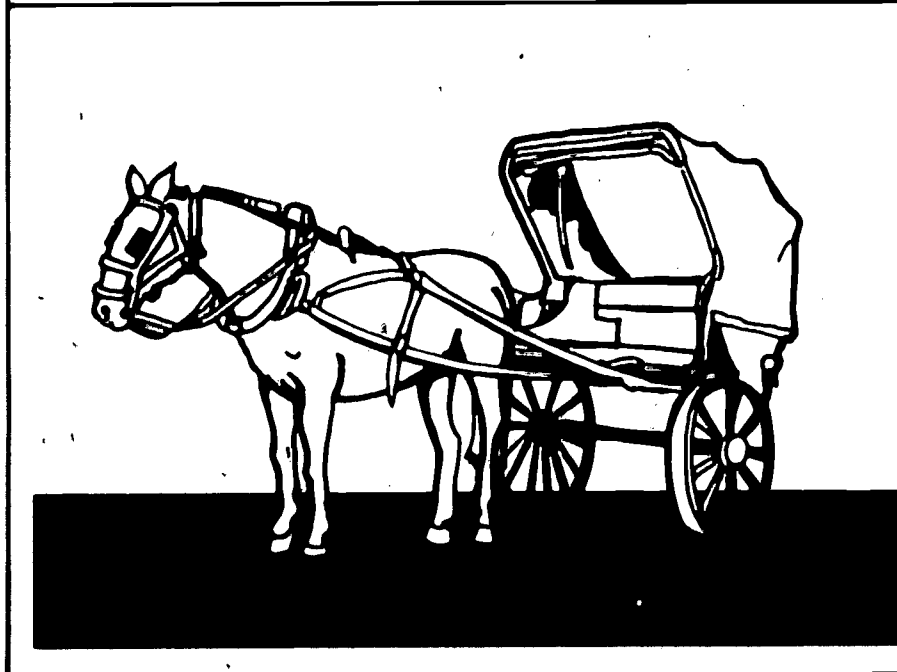
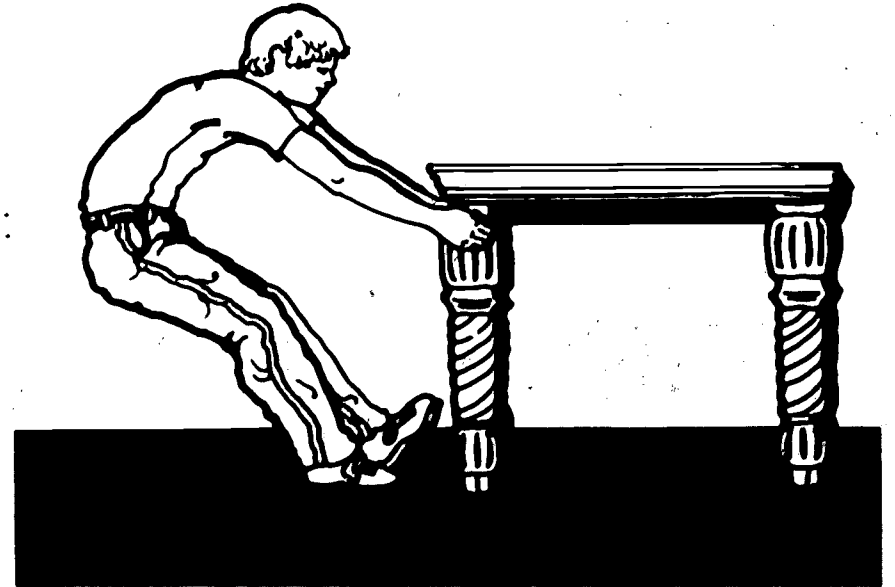
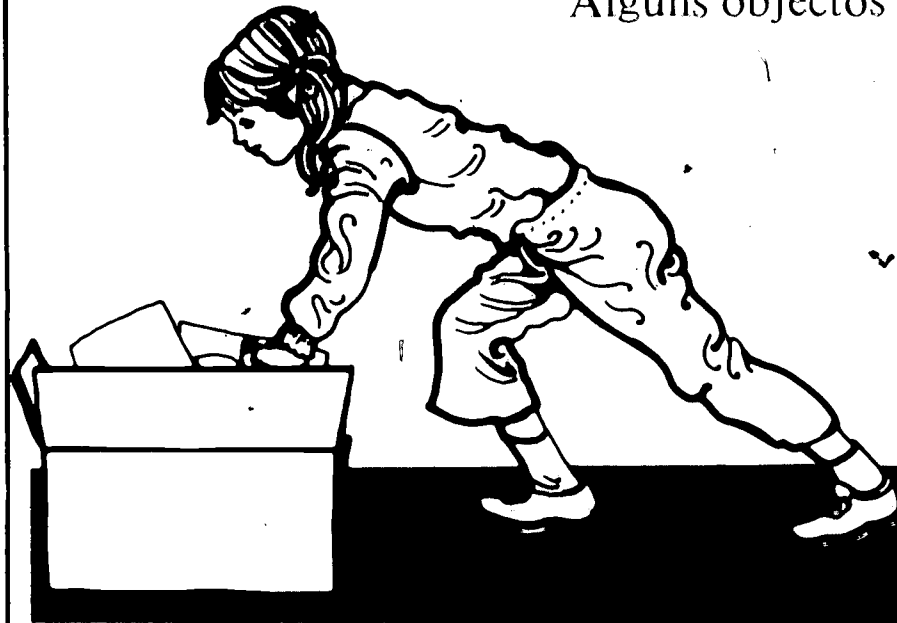
rastejar

Andar	Trotar	Voar	Nadar	Rastejar	Saltar
-------	--------	------	-------	----------	--------

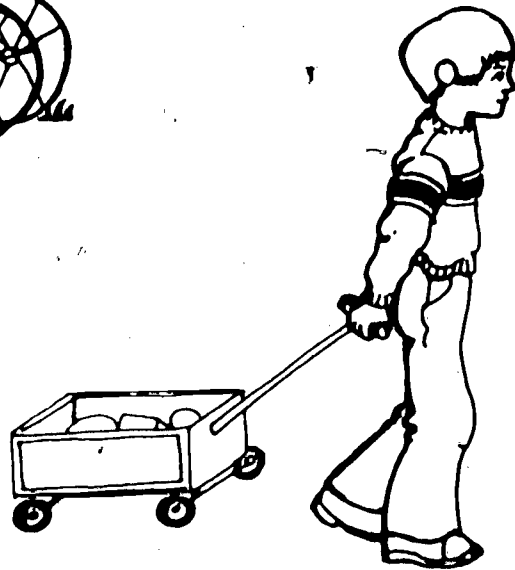
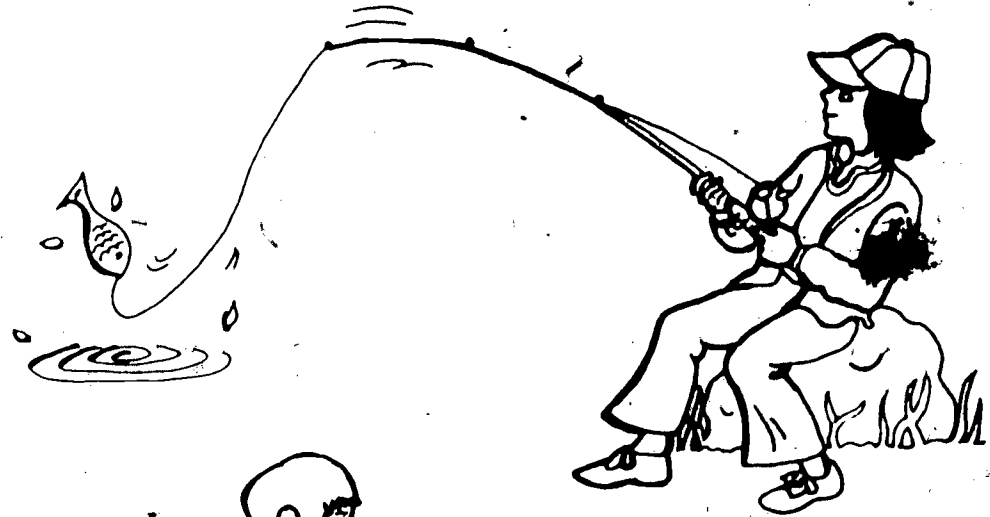


# Movimento

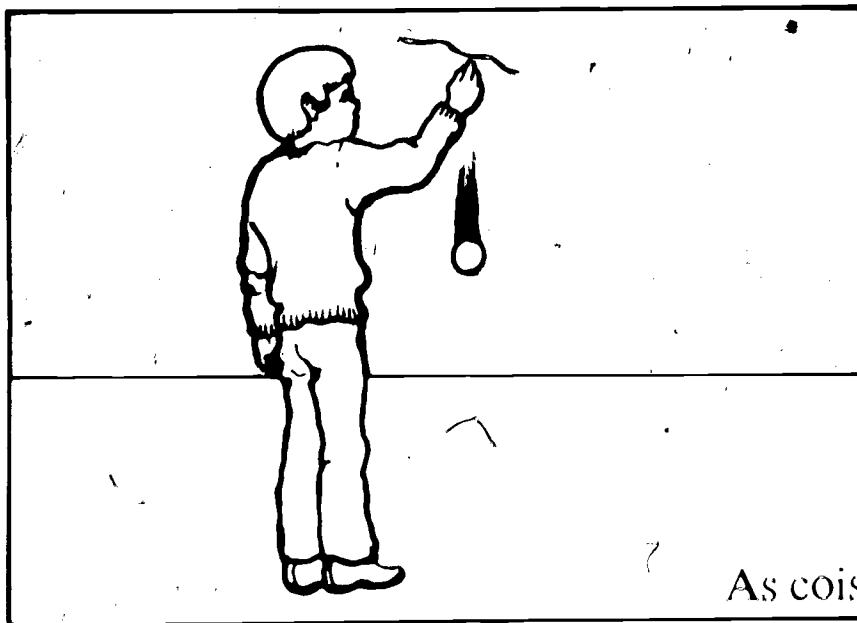
Alguns objectos podem-se mover...



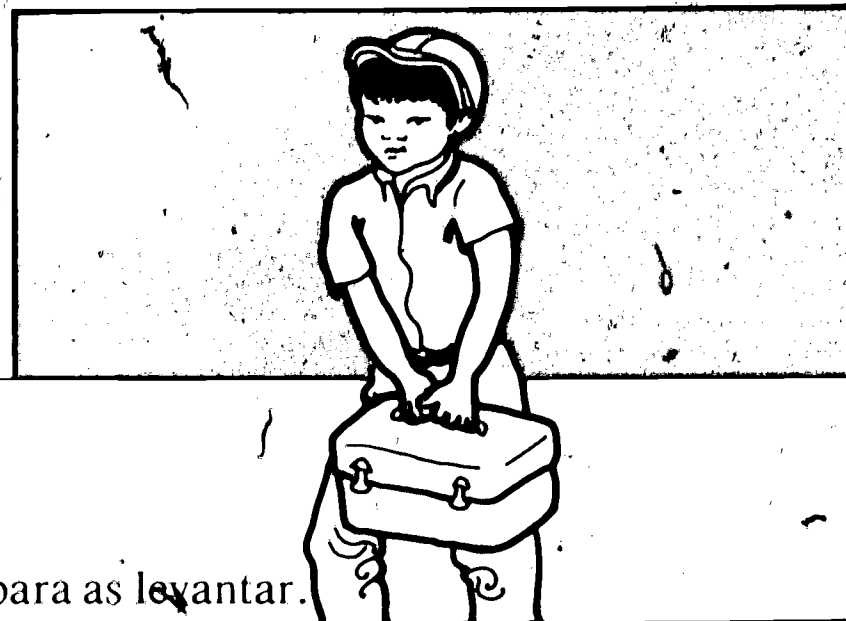




# A Terra Atrai



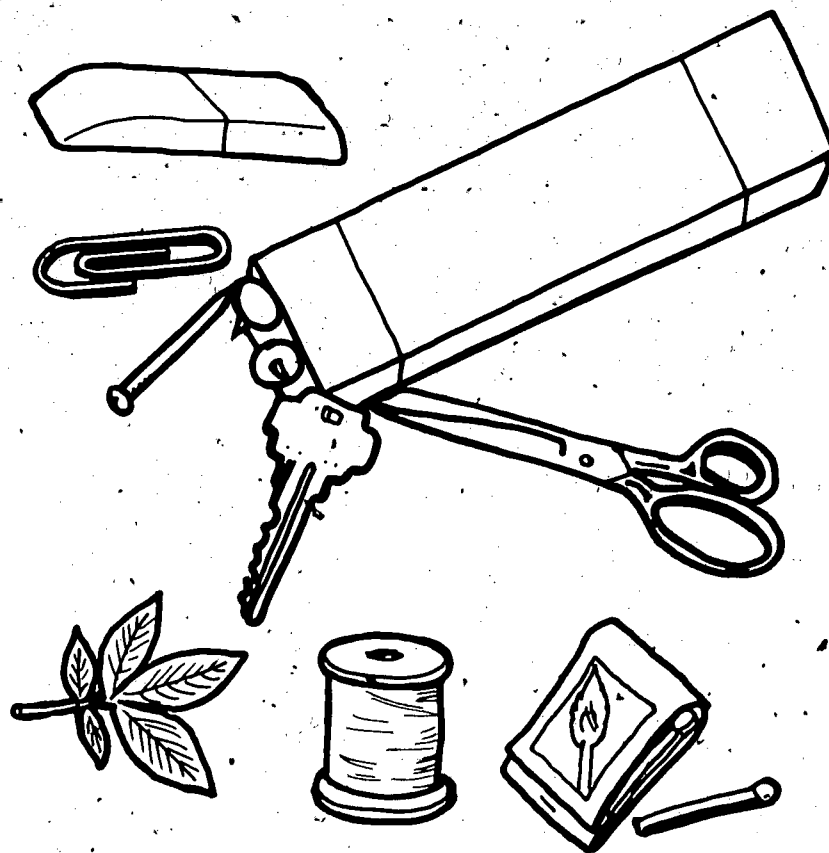
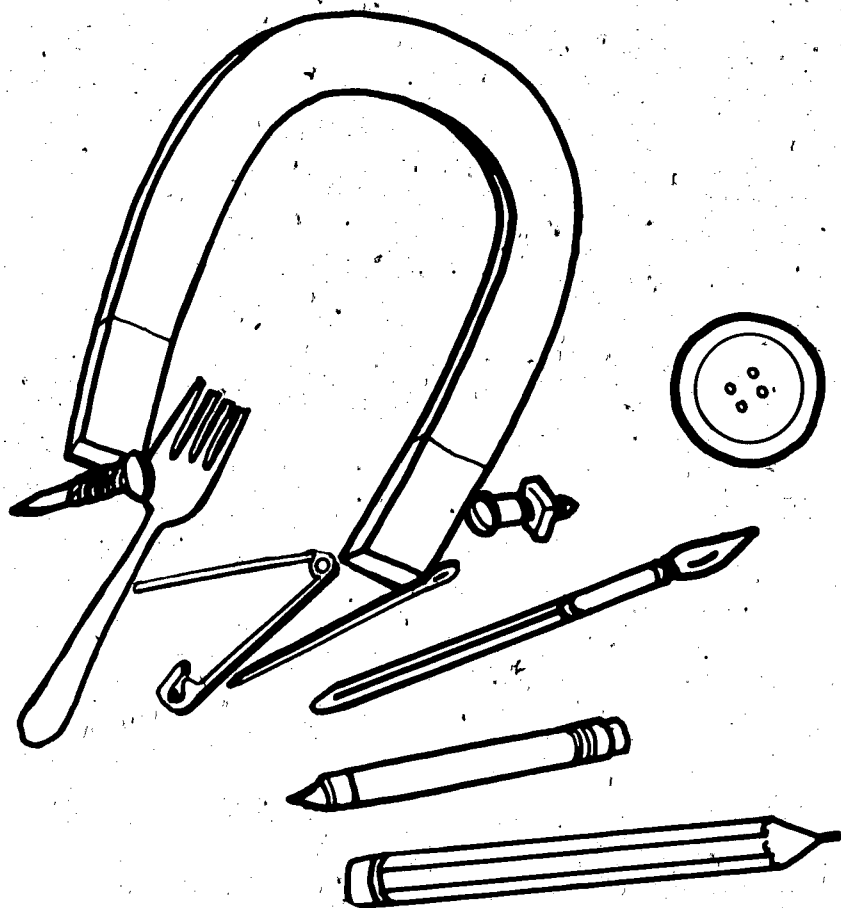
As coisas caem.



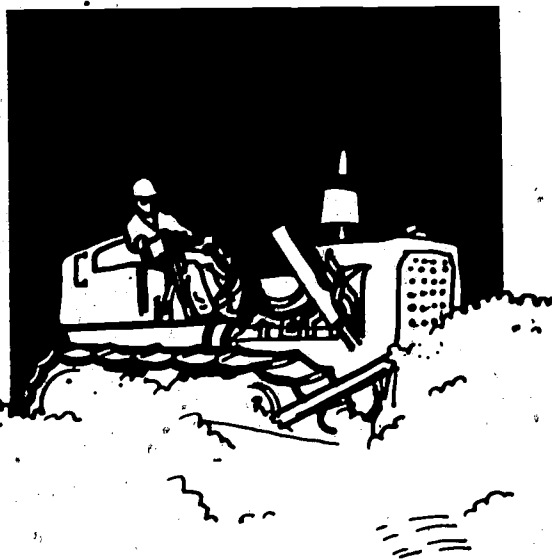
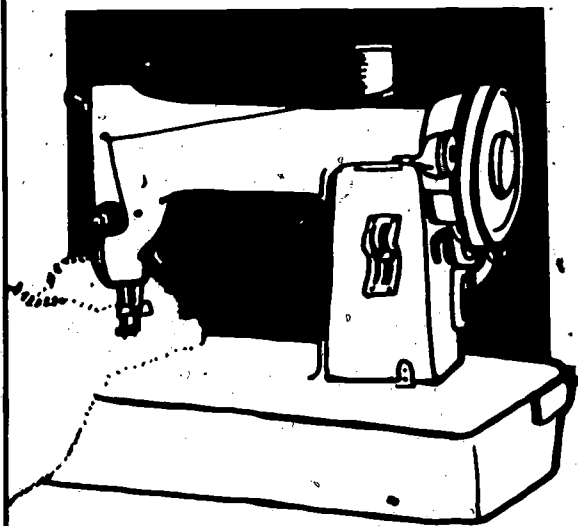
É preciso força para as levantar.

# Os Ímans

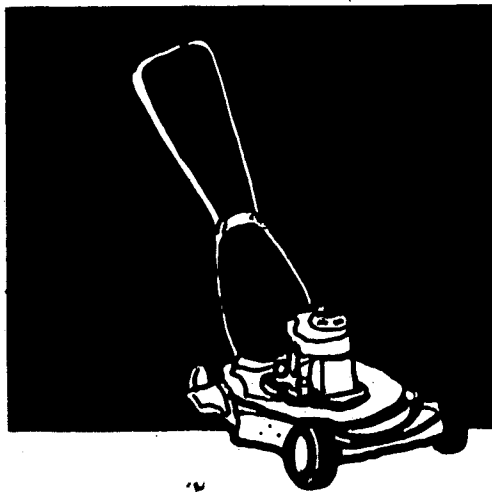
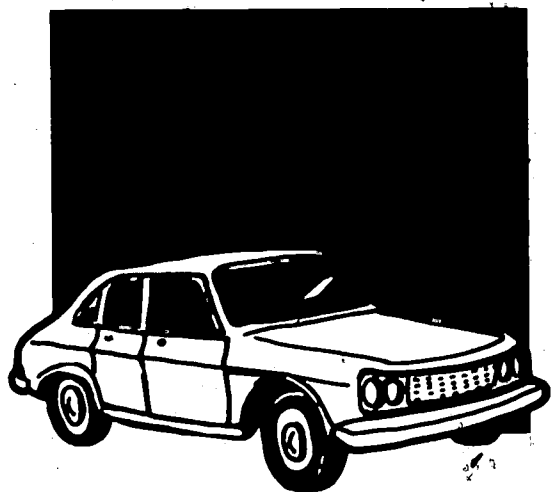
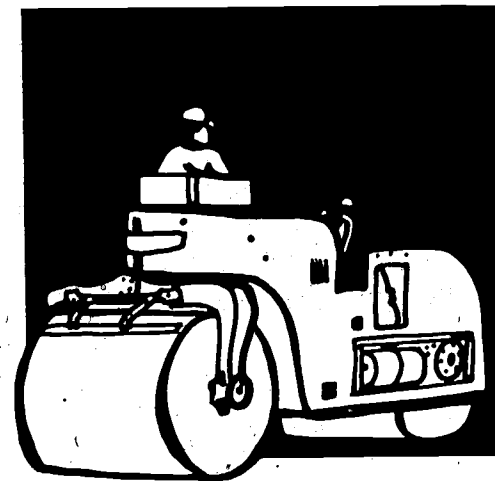
Os ímans atraem alguns objectos.



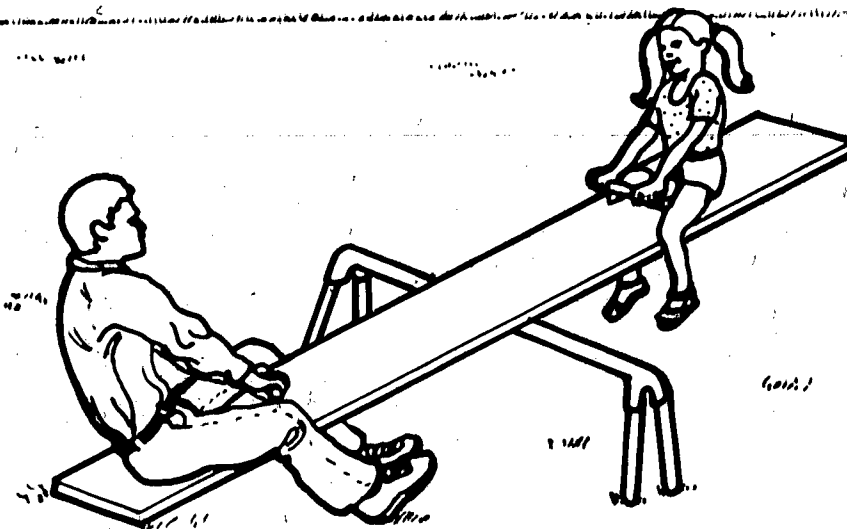
# Máquinas



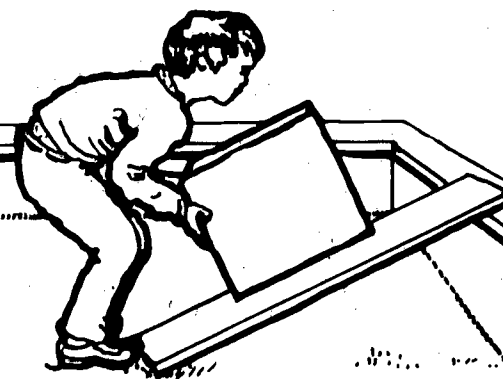
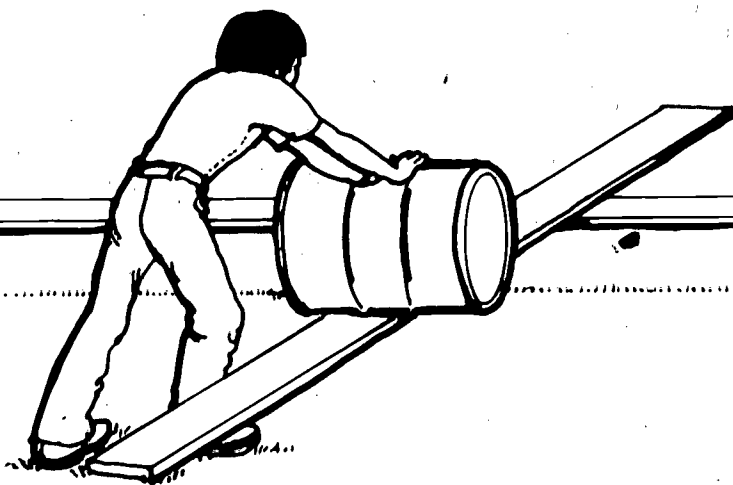
As máquinas ajudam-nos.



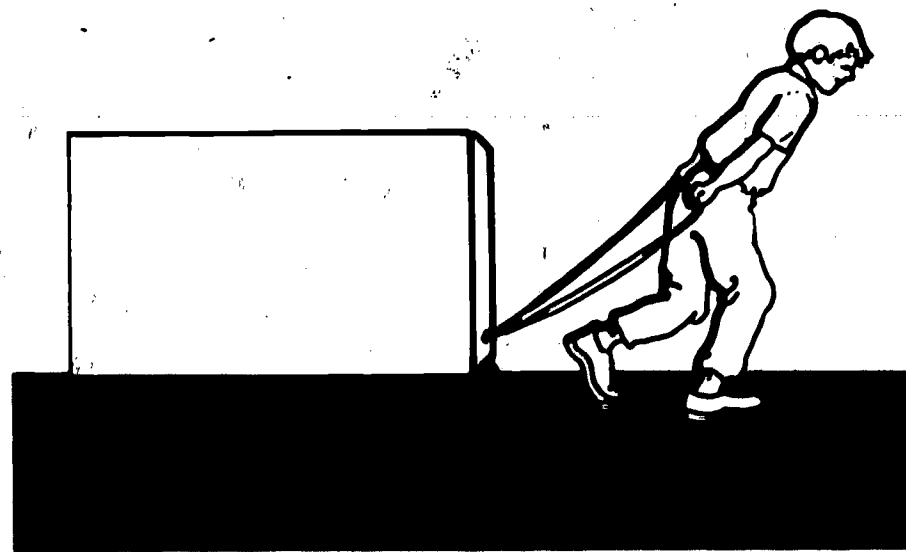
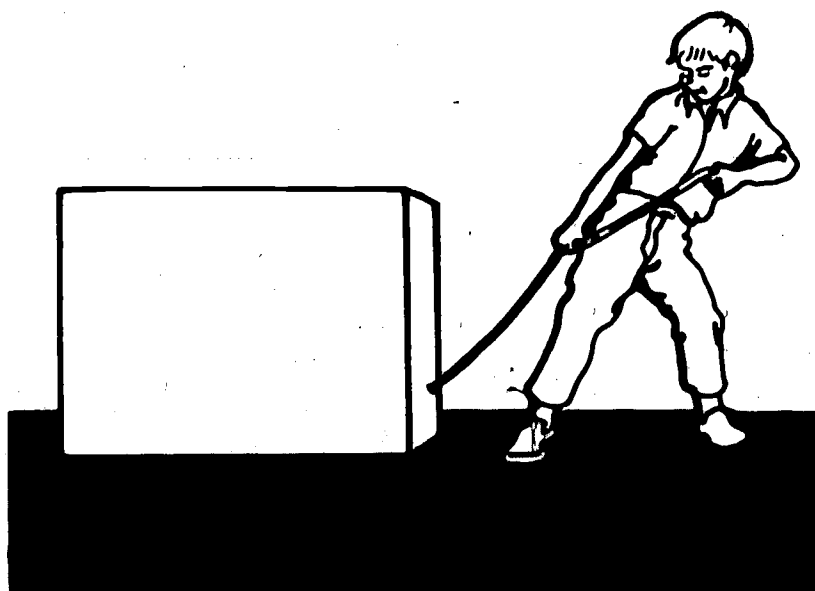
# Máquinas Simples



A alavanca e o plano inclinado são máquinas simples.



# As Rodas



As rodas tornam mais fácil mover objectos.

