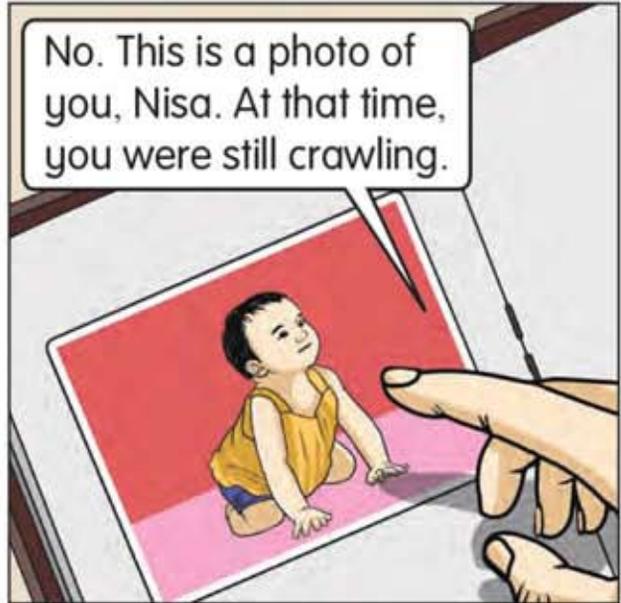
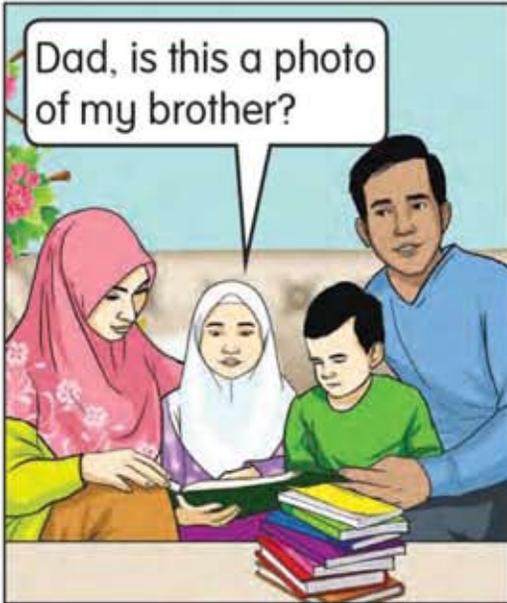


Unit 3

HUMANS



Why is Nisa confused with her family photos?



Human Reproduction

Kanang's mother has just given birth.



One of the characteristics of a human is reproduction.
How does a human reproduce?

A human reproduces by giving birth.

Teacher's Notes

- Humans increase their numbers through reproduction.

3.1.1

Activity Book

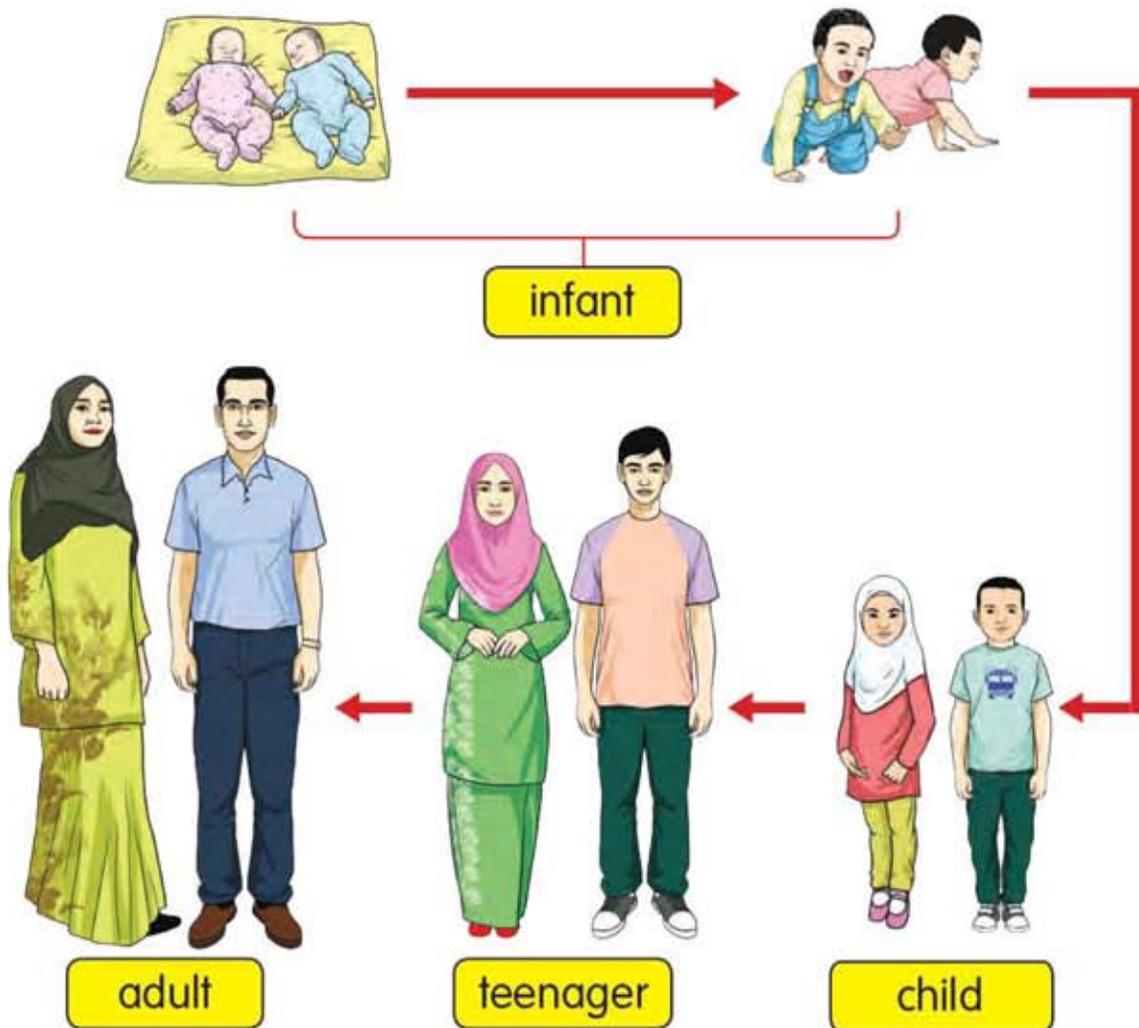
Page:

13



I Grow

Observe the pictures below. Which stage are you at?
What are the changes that you have experienced from birth?



Let's see the changes in these situations.

Before



After one year

Dad, why is this shirt tight?



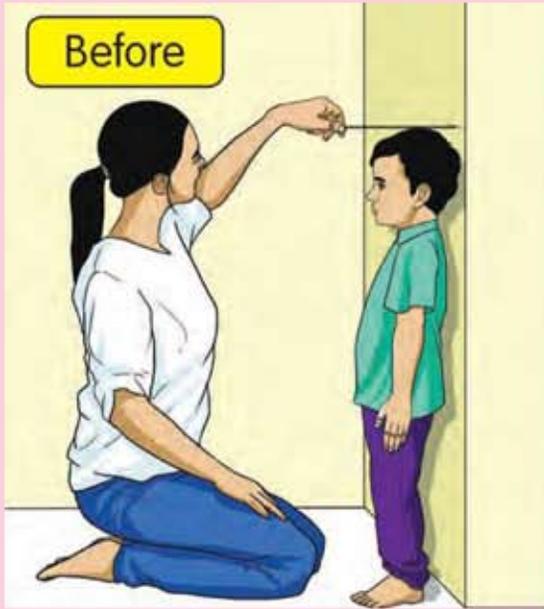
Wow! My son is growing. I will buy a new shirt for you.



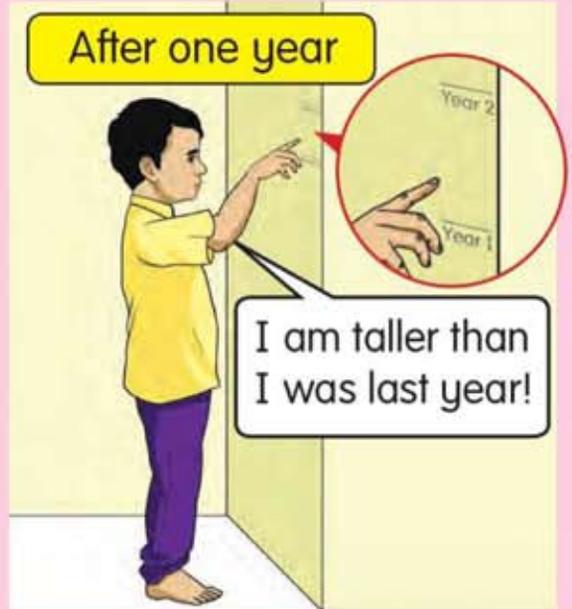
Increase in size



Before



After one year



Increase in height

Before



After one year



Increase in weight

We experience changes in **size**, **height**, and **weight** since birth.





Different Growths Among Individuals



Why are the growths of these pupils different? Compare your growth with your friends'.



I Investigate

Measuring the Size of Palms, Weight, and Height

Apparatus and Materials

- coloured pencils
- A4 paper
- wall ruler
- weighing scale

Group Activity

Steps



1. Sketch the outline of your palm using a coloured pencil.



2. Repeat Step 1 for your friends. Trace on different sheets of paper.



3. Measure yours and your friend's body weight using a weighing scale.



4. Measure yours and your friend's height.



- Repeat Steps 3 and 4 to your other friends.
- Record the results in the table as shown below.

Name	Weight (kg)	Height (cm)
Nisa		
Kugan		
Kanang		

- Compare the size of palms, height, and weight between you and your friends.

Question HOTS

Is the size of your palm, height, and weight the same as your friends? Why?

Growths among individuals are different although they are of the same age.

Inheritance



Teacher's Notes

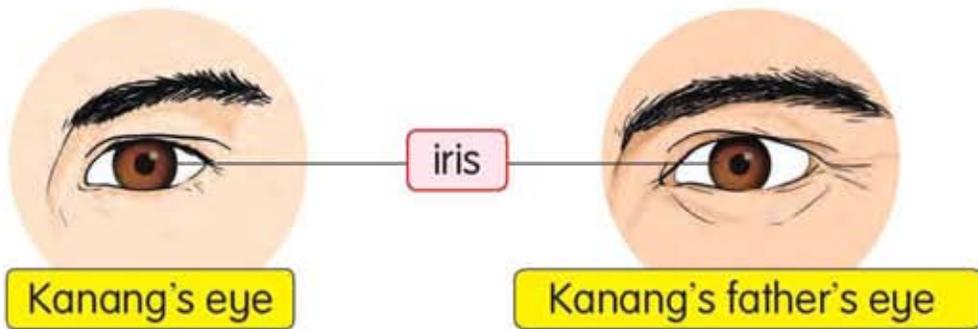
- There are various colours of the iris such as black, brown, gray, blue, and green.

Activity Book

Pages:

17-20

3.14
3.15



Is the colour of your iris the same as your parents'?

Kanang inherited the colour of his father's iris. The colour of our iris is one of the features inherited from our parents or ancestors. This is called **inheritance**.



Compare Nisa with her mother and father. What are the features inherited by Nisa?



Why is Kugan's hair type different from his parents'?



Your **hair type** is similar to your grandfather's.

Offsprings **inherit features** such as iris colour, skin colour, and hair type from their **parents** or **ancestors**.



I Investigate



Identify My Family's Inherited Features

Individual Activity

Steps

1. Identify one of your features.
2. Compare it to a similar feature of your parents or ancestors.

Question

What are your inherited features?

Teacher's Notes

- The inherited features are iris colour, height, face, hair type, and earlobe.

3.1.5





I Investigate



Identify Human Inherited Features

Apparatus and Materials

- coloured pencils
- drawing paper
- pencil
- picture of a family

Group Activity

Steps

1. Paste the family picture on a drawing paper.
2. Compare the children's faces with their parents'.
3. List the features you have identified. Paste your work on the wall and explain to the class.

Children's Inherited Features

Wavy hair type
(father's feature)

Black hair colour
(parents' feature)

Fair skin colour
(mother's feature)

Brown iris colour
(mother's feature)



Question

Offsprings will inherit the features from _____, _____ or _____.



Science Recreation

My Family Tree

1. Get your family photos.
2. Paste the photos on a tree branch and decorate it.
3. Discuss the inherited features of your family members.



I Remember

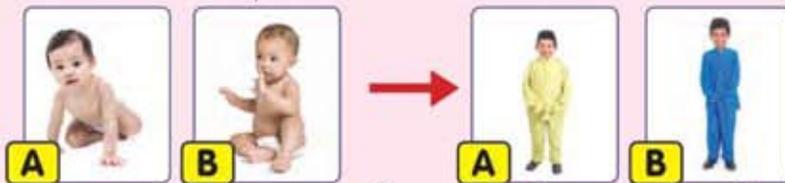
1. Humans reproduce by giving birth.
2. The stages of human growth:
 infant → child → teenager → adult
3. We experience changes in:
 size height weight
4. The growths among individuals are different although they are of the same age.
5. Offsprings inherit features from their parents or ancestors.
6. The inherited features are:
 iris colour skin colour hair type



I Answer

Answer all the questions below in your Science exercise book.

1. Observe these pictures.



- a) We change in _____, _____, and _____ since birth.
 - b) Although they are of the _____ age, growths among individuals are _____.
2. Offsprings inherit _____ from their parents or _____.



HOTS

What are the advantages of the differences in growths among individuals?

