Lesson Number	Title of the Lesson	Skills	Activity
18	Growth and Development (0-5 years)	Creative thinking Decision Making Problem solving Critical Thinking	Identify two children in the age group of 0-5 months. Observe and note down their milestones of motor and social development. Compare for individual differences.

Summary:

Human beings develop from a zygote to an adult. It is a fascinating developmental process. Its knowledge is important to know self as well as for guiding the growth of children. The lifespan has different stages with each stage having its unique characteristics. The development follows a fixed pattern with individual variations. There are two factors which affect growth and development. They are Heredity and Environment. Each stage of development has certain Milestones which are indicators of growth and development. Young children often demonstrate behavior which are inappropriate. These behavior patterns can be dealt with patience and understanding. Efforts have to be made to help the child overcome these and become more socially and emotionally stable. Handedness in children should also be dealt with a lot of caution. Forceful enforcement can affect the brain and speech development. Hence very gentle handling is required in this case. The child should be allowed to choose his preference of hand.

Principal Points

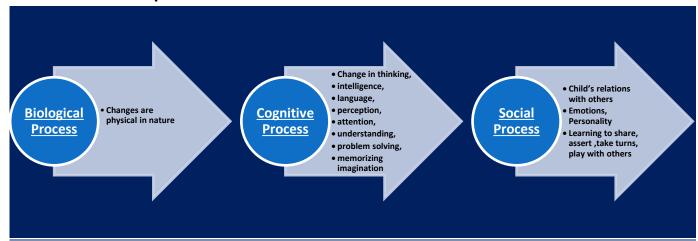
1. Stages of Life Span



2. Stages of Development after Birth



3. Patterns of Development



4. Difference between Growth and Development

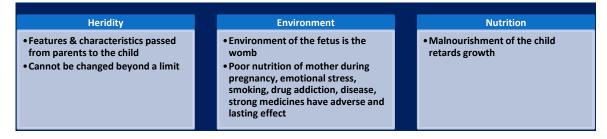
Growth	Development		
 Quantitative changes in the body 	 Qualitative changes in the body 		
E.g. height & weight	Eg. Acquisition of language		

5. Principles of Development

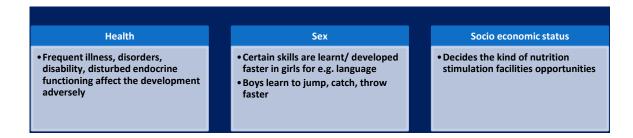
- It follows an orderly pattern
- Each one passes through all the stages
- Individual differences seen
- Each part of the body develops at a different rate
- Development is Cephalocaudal i.e. proceeds from head to toe
- Development is Proximodistal i.e. proceeds from center to extremities
- Development is the result of interaction between maturation and learning

Build your understanding

1. Factors affecting Growth and Development



Intelligence • Higher intelligence-faster growth Lower Intelligence-Retardation • Opportunities for exploration & interaction have a positive influence on development • Discord/fights at home, lack of love & attention, physical, mental abuse affect the development adversely



2. Dimensions of Physical Development



3. Milestones of Physical Development

6 Weeks	Smiles at mother		
	Eyes steady, can stare		
	Follow movement with eyes		
3 Months	 Turns head towards sound 		
	Head still bobs		
6 Months	Head steady		
	Back straight		
	Sits with support		
	Stretches arms		
	Eruption of central incisors		
7 Months	Eruption of upper incisors		
8 Months	Eruption of upper canines		
9-10 Months	• Eruption of lower canines		
3 Years	Set of 20 milk teeth complete		

Important Facts:

- Bones soft at birth, made of cartilage tissue
- Ossification begins after birth and is a continuous process
- Bones covered with fat and muscles, chances of fracture low
- Control of trunk and back muscles first then arms and legs then fingers

4. Milestones of Motor Development

0-2 Months	•	kicks aimlessly	
	•	stretches arms and legs	

	• fict usually closed	
2 4 Months	fist usually closed fallows with the areas	
2-4 Months	follows with the eyes	
	stares at bright objects	
	lifts chest when placed on abdomen	
	holds head	
	 rolls from back to side 	
	begins to grasp	
4—6 Months	 holds head steady 	
	holds toys	
	raises hand	
	 lifts head and shoulder 	
	• rolls over	
	Sits up when propped	
6-8 Months	can hold head	
	sits erect without support	
	 bangs toys and spoon 	
	pats floor	
	can pick up objects	
	 can hold toys in each hand simultaneously 	
	 use thumb to grip 	
8-10 Months	begins to crawl	
	 can pull up self with support 	
	stand with support	
	 can hold small objects between thumb and 	
	finger	
	bite and chew	
10-12 Months	stands with slight support	
	walk with support	
	can push light objects	
	 picks up small and big object 	
1-2 Years	walks without support	
1 2 1 2 1	 drinks from a cup /glass 	
	 can handle spoon 	
	 plays with push and pull toys 	
	climbs stairs up and downscribbles	
2-3 Years	eats independently though spilling is there	
2-3 Years	plays independently	
	eats independently	
	bowel and bladder control says broads as the with balls.	
	can brush teeth with help	
	can take out and put back toys	
2.5.	follows simple instructions	
3-5 Years	can button and unbutton	
	attend to personal needs	
	ready for school	

5. Milestones of Emotional Development

Birth	Neither social nor unsocial	
3 Months	responds to friendly gestures or actions	
	• smiles	
5-6 Months	can distinguish between familiar persons and	
	strangers	
12Months	cooperate in simple tasks	
	shy of strangers	
2Years	 loves the company of age mates 	
	throws temper tantrums	
	sibling rivalry	
	wants attention	
	fear of separation	
	loves to copy	
3 years	 displays affection towards familiar persons 	
	starts cooperative play	
	 indulges in imaginary games 	
	has imaginary friends	
4-5 Years	 loves the company of friends 	
	becomes competitive	
	learns to assert	

6. Milestones in Language Development

Birth	cries for all needs	
1-2 Months	 crying becomes peculiar, hunger, discomfort, attention, pain can be distinguished 	
3 Months	cooing, gurgling	
6-7 Months	• babbling	
9 Months	 speaks words, one word conveys a whole sentence (telegraphic speech) 	
12 Months	can combine two words	
2 Years	2-3 word sentences	
5 Years	 vocabulary of about 8000 words 	

What is Important to Know

Features of Cognitive Development

- Object permanence (develops by 8 months of age)
- Egocentric behavior (can be seen from 2-7 years)
- Illogical thinking
- Believes life in nonliving (animism)
- Fantasy and make-believe play
- Confused by surface appearances
- Low attention span
- Limited memory

- Confused about casual relationships
- Acquires basic concept of colour, shape, size, number, days
- Curiosity high

Did you know

1. Special Areas of Child Care

Feeding	Rest & Sleep	Bathing	Clothing	Immunization
Colostrum Essential	0-2 months – 20 to	Regular bathing to	Comfortable	At the time of birth
	22 hours	keep clean		
Breast feeding	2-6 months- 16 to	Temperature of	Soft & light weight	Regular
advisable	18 hours	water- 85 F		immunization
				according to
				schedule
Supplements from	6 to 12 months- 12	Massaging before	Absorbent	Booster doses
3-4 months	hours in the night,	bathing		essential
	morning and			
	afternoon nap			
Solid food-1 year	1-2 years- 12 hours	_	Brightly colored	_
	night, afternoon			
	nap			
Weaning should be	2-5 years- 8 to 10	_	Easy to wash &	_
gradual	hours, afternoon		quick to dry	
	nap			
_	_	_	Fast colors	_
	_	_	Avoid frills &	
			trimmings and not	
			too expensive	

2. Causes of Behavioral Problems in Children

- Self-expression not allowed
- Unrealistic expectations of parents/teachers
- Attention seeking
- Disturbed family environment
- Crisis: Sibling arrival, separation from loved ones, death of a familiar person
- Illness or disability

Extend your Horizon

Common Behavior Problems in Children

a. Aggression

Reasons Angry

Feeling troubled

Remedy Do not punish

Divert attention

Provide outlets for expression Separate other children gently Make feel loved

b. Throwing/ Breaking/ Destroying things

Reasons Helplessness

Jealousy Boredom

Attention seeking

Remedy Keep precious/ breakable things out of reach

Provide unhindered place to play

Divert attention

Involve in interesting activities

c. Thumb sucking

Reasons Hunger

Tired

Dissatisfied Boredom

Needs love/comfort/attention

Remedy Do not be harsh/punish

Provide sucking satisfaction Offer love and assurance

Involve in interesting activities using hands

d. Bedwetting

Reasons Not toilet trained

Fear

Insecurity Anxiety

Remedy Do not threaten or punish

Encourage regular toilet habits

Reassure

Show love and care

Motivate for toilet training

e. Lying

Reasons Fear of punishment

Attention seeking

Uncontrolled imagination

Remedy Do not preach or show displeasure

Understand the reason Give the needed attention

Provide opportunities to express imagination in a positive way

Practice truthfulness and teach by example

f. Refuses to eat

Reasons Not hungry

Unwell

Dislikes particular food

Is force fed

Remedy Do not force or punish

Do not give rewards for eating

Do not threaten

Be calm

Introduce new foods
Bring variety in meals

Handedness

Right Handedness	Left Handedness
Centre to control handedness on left side	Centre to control handedness on right side
of brain	of brain
Speech control on right side of brain	Speech control on left side of brain

Evaluate yourself

- What should be the essential qualities of diapers /nappies?
- What are the causes of bedwetting? Give two ways in which it can be controlled

Maximize your marks:

- Attempt all the exercises given in the lesson
- Why should handedness not be forced?