Unique, Student-Driven Pedagogy



Quotations

These appear at the beginning of the chapter and occasionally in the margins to stimulate further thought about a topic.

Cognitive Map

This provides students with a visual overview of the entire chapter.

Images of Life-Span Development

Each chapter opens with a high-interest story that is linked to the chapter's content. Many of the chapter-opening stories are new to the First Canadian Edition.

Introduction

~? ?

Gach time you look at your child you see something mysterious and contradicory—bits and pieces of other people grandparents, your mate, yourself, all captured in a certain stance, a shape of the head, a look in the eye, combined with something very precious—a new human soul rich in individuality and possibility. That's inntality."

Joan Sutton Contemporary Canadian Writer



obby Orr

Images of Life-Span Development

A Tale of Two Citizens

TWO LEGENDS, awarded both the highest honour of Canada and that of hockey, left marks on Canadians' collective psyche. They are 15 years apart in age, but even farther apart in the respect they have earned. One has fallen from prominence to disgrace; the other stands tall with dignity. One is Robert Alan Eagleson; the other is Robert Groton Orr.

A lawyer by training, Eagleson was born in 1933 to a low-income family. While in school, Eagleson was notable for his small stature and great intellect. His desire for an upper-class lifestyle contributed to his decision to study law at the University of Toronto. During his school years, Eagleon demonstrated an aptitude for business, managing the logistics for local and university variity teams. At the same time, his tendency for aggressive behaviour and profane language also became part of his persona. Not long after his legal career began, Eagleon started representing hockey play-

ers. One of his first clients was Bobby Orr. When the National Hockey League Players

Association (NHLPA) was founded in 1967, Eagleson became its first executive director. His main duty was to help players negotiate contracts with club owners. Nevertheless, in the eyes of players and fans, Eagleson's most significant achievement was the Canada– USSR series that he orchestrated in 1972. His sport and his country paid tribute to him with a position in the Hockey Hall of Fame and an appointment as Officer of the Order of Canada–both in 1989. A few yeans later, an indictment in the US. revealed a diffeent image of Eagleson. Accusations surfaced of questionable business practices, misuse of union funds, and racketeering, among others. Eagleon's downfall culminated in an 18-month jail sentence and the retraction of his Hall of Fame and Order of Canada honours, both in 1998.

Mini Cognitive Maps

Key Terms Definitions

in the margin.

Key terms appear in boldface type with their definitions immediately following in italic type. They also appear nearby

These mini maps appear three to five times per chapter and provide students with a more detailed, visual image of the organization of the chapter.



Section 3: Infanca

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Motor Development

The study of motor development has seen a renaissance in the past decade, resulting in new insight into the ways in which infants acquire motor skills.

Reflexes

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When the parents returned, the babysitter remarked how energetic and intelligent Alex and Chris were. Alex two years into early childbood, ran fat, played creatively with toys, and—using his fluent speech—made jokkes, refused to eat, argued with and com-forted his brother, and described the Dinaey movies to the babysitter. Chris, just about to enter early childbood, ran more slowly than Alex and initiated his older brother's babwiout thoughout the day. His speech was somewhat jumbled, but he exhibited rea-soning akills when he asked to play with the train when his older brother was alexp. In this chapter, we will discuss the physical and cognitive development of chil-dren in the same age group as these two brothers, examining questions such as: How does the body grow and develop? What are young children's more shills like? What are the theories and findings pertaining to children's cognitive abilities? We will also talk about early childhood education in Canada. As you are reading, you might be able to envision Alex and Chris running, playing, thinking, and talking.

Physical Development in Early Childhood



Web icons

Web icons appear a number of times in each chapter. They signal students to go to the OLC for Life-Span Development, First Canadian Edition, where they will find connecting links that provide additional information on the topic discussed in the text.

Recall from chapter 5 that an infant's growth in the first year is rapid and follows cephalocaudal and proximodistal patterns: 4000 Pt 120. Around their first birthday, most infants begin to walk. During an infant's scond year, the growth rate begins to also down, but both gross and fine motor skills progress rapidly. The infant devel-ops a sense of mastery through increased proficiency in walking and running. Improvement in fine motor skills—such as being able to turn the pages of a book one at a time—also contributes to the infant's sense of mastery in the second year. The growth rate continues to both own in early childhood. Otherwise, we would be The growth rate -species of giants

Body Growth and Change Body growth and change in early childhood involve height and weight, as well as the brain.

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Cross-Linkage

This system refers students to the primary discussion of all key concepts. A specific page reference appears in the text with a backward-pointing arrow each time a key concept occurs in a chapter subsequent to its initial coverage.



now the five-year-old not only is taller and weighs more, but also has a longer trunk and legs than the two-year-old. What might be ome other physical differences in two- and five-year-olds?

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attractive object or gazes intently at a face, tiny bursts of electricity shoot through the brain, knitting together neurons into circuits. The results are some of the behav-ioural milestones we discuss in this and other chapters. For example, at about two months of age, the motor-control centres of the brain develop on that infants can suddenly reach out and grab a nearby object. At about four months, the neural con-nections necessary for depth perception begin to form. And, at about 12 months the brain's speech centres are posked to produce one of infancy's magical moments when the function and connections are formed early in life. The infant's brain literally is waiting for experiences to determine how connections are made (Greenough, 1999, 2001; Johnson, 1999, 2000, 2001). Before birth, it appears that genes mainly direct how the brain establishes basic wiring patterns. Neurons grow and travel to distant places awaiting end evelopment. The inflowing stream of sights, sounds, smells, touches, language, and eve contact help shape the brain's neural connections. To this point we have studied a number of ideas about cephalocaudal and prox-imodiatal patterns, height and weight, and the brain. A review of these ideas is pre-sented in summary table 5.1.

The soft rise and fall of the unconscious sleeper's breast is a miracle. It is a binding symbol of our humanity. The child in the lost attitude of sleep is all children, everywhere, in all time. Ethel Wilson Contemporary Canadian novelist

Infant States

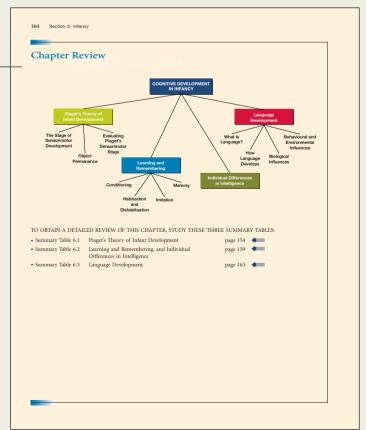
Just as developmentalists chart infants' height and weight patterns, they also exam ine the infant states, or states of consciousness, the levels of awareness that charac terize individuals.

Classification Using classification schemes, researchers have identified many aspects of infant development. One such aspect is the sleeping-waking cycle (Henderson & France, 1999; Ingersoll & Thoman, 1999). When we were infants, sleep consumed

SUMMARY , TABLE 5.1 Cephalocaudal and Proximodistal Patterns, Height and Weight, and the Brain		
Concept	Processes/ Related Ideas	Characteristics/Descriptions
Cephalocaudal and Proximodistal Patterns	Cephalocaudal	Growth from the top down.
	Proximodistal	Growth from the centre out.
Height and Weight	Nature of Changes	 The average North American newborn is 50.8 centimeters long and weights 3.5 kilograms. Infants grow about 2.5 centimeters per month in the first year and nearly triple their weight by their first birthday. Infants' rate of growth slows in the second year.
The Brain	Development	 Dendritic spreading is dramatic in the first two years. Myelination continues to develop in infancy and childhood.
	Hemispheres	The cerebral cotex has two hemispheres (left, right). Lateralization refers to specialization of function in one hemisphere or the other
	Early Experience and the Brain	 The brains of animals growing up in enriched early environments develop better than those living in standard or isolated early environments.
		 Neural connections are formed early in life. Before birth, genes mainly direct neurons to locations. After birth, the inflowing stream of sights, sounds, smells touches, language, and eye contact help shape the brain's neural connections

Summary Tables

Several times in each chapter, we review what has been discussed so far in that chapter by displaying the information in summary tables. This learning device helps students get a handle on material several times a chapter, providing a visual cue to reflect and review.



Chapter Review

The chapter review consists of a cognitive map of the entire chapter and a bulleted list of the summary tables, which are pagereferenced with a backward-pointing arrow.