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/

:

mentally retarded

(70 75)

(70)

90 85

learning) ()

.(disabled children

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)

(

(Smith, & Luckasson, 1995) "

()

" "

" Information Processing Theory " "

()

(Input)

(Processing)

(Output)

:

" "

:

:

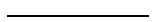
(Information Processing Theory) :

(Cognitive performance)



)

.(Swanson, 1987



:

:Structural component () :

(hardware)

(sensory storage)

.(long- term memory)

(short -term memory)

strategy component :

(software)

(executive component) :

()

(1) :

sensory memory :

recognition .

)

(

(Bos and Vaughn , 1994)

_____ " :

" _____

" " " "

:

:(Sensing) -1

:(Attention) -2

short-term memory :

() ()
(Short-term Memory
(working memory)

()

()

free)

(tasks distracter)

(recall tasks)

(serial recall)

(recall

30-20

:)

(

(Miller, 1956)

()

()

(rehearsal) ()

maintenance rehearsal

:

elaborative rehearsal

()

()

()

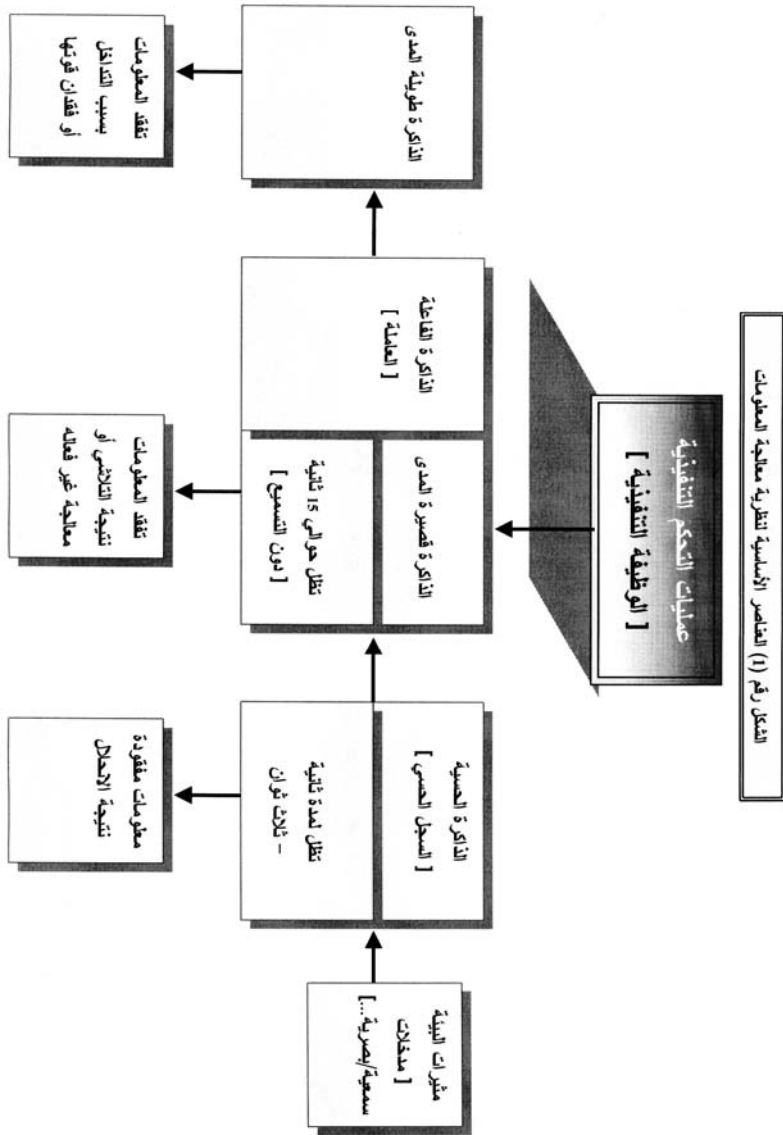
()

(chunking)

(5356710)

-535)

.(53-56-71-0) (6710



Long-term memory : :

.(Long-term Memory)

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:

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(Input)

(Output)



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()

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:

(learning disabled)

" "

(Clements, 1966)

(Werry, Weiss, and Douglas,1964)

) (learning disabilities)

(Attention deficit hyperactivity disorders

.(DSM 111 -R)

.(Contwell, Satterfield, 1978) .

(Huessy, Cohen , 1976)

Charles,)

(Lambert , Sandoval , 1980)

(schain , 1981

(%80) (Anderson, et al. 1987)

)

(11)

(DSM-111

(Conditional)
 ()
 ()
)
 (Shelton , and Barkley, 1994) (...)

Mesalum, 1990,)

-2 arousal, alertness -1 : (Posner, 1988
 () -4 selective attention -3 impulsivity
 . Persistence of action sustained attention

(Automatic processing)
 Deliberate or Purposive)
 .(Swanson , 1991) (Processes

()

()

()

()

.(Smith, 1994)

(immature attending ability)

.(Smith , 1994) Dykman et al , 1983, Traver & Hallahan, 1974)

(Goldstein & Dundon, 1987)

(arousal)

(Smith, 1994)

:

:

/

-1

(lower EEG arousal levels and amplitudes)

.(Smith, 1991)

(Smith, 1994 Donahue, 1986)
()

.(:)

.(Kreshner& Stringer, 1991)

(automatic level)
"
"

: -2

()

(Mercer, 1976)

Verbal mediation and attention : -3

(Smith, 1994)

(Torgsen & Goldman , 1977)

(poor readers)
(good readers)

(15)

(15)

(15)

(Smith, 1994 & Pepe, 1983)

:

:

perceptual Theory)

.(deficit

(-)

sensorimotor



Kephart, 1971

Getman, 1965

Barch, 1965)

(Lerner, 1981)

Ayres 1972

(isual - motor)

(1971)

()

()



peripheral visual functions

Helveston , 1985)

.(Smith, 1994

(Morse code)

.(Smith , 1994 Rudel, et al , 1976) (Braille)

) (pauses)

(fixation

(Pavlidis, 1981)

%95 %87

.(Smith , 1994)

.(Fletcher, 1991)

(decoding)

. pauses fixation

)

)

(

(

.(:)

Fletcher,)

.(1991

(Hammil 1972) .

	Visual Discrimination	-1
Visual Figure –	:	-2
	Ground Discrimination.	
	Visual Memory :	-3
Visual Spatial Relationship :		-4
	Visual Closure :	-5

Lovegrove, et al 1986)

.(Smith , 1994

.(Smith, 1994)

.(Bakker, 1983)

)

(

le

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(Smith, 1994) (el

:

Slow Visual-information processing :

.(Richards , et al, 1990)

(after-images) ()

.(Stanley & Hall, 1973)

()

()

.(Smith, 1994 icolson, 1981)

.(Smith , 1994 dams, 1990)

:

visual)

— (discrimination
visual - motor) — (visuospatial organization)
(memory for visual sequences) (coordination
(Larsen & Hammill, 1975)

600 (Larsen & Hammill , 1975)
visual) %10
(perceptual task

(Smith , 1994)

(smith, 1994 uder, 1991)

:

(verbal labeling)

.(smith, 1994)

din , bin

() ()

(labeling)

(Verbal mediation)

(Torgesen, 1988)

(Swanson, 1986)

() / ()
/

(100)

(Kavale , 1981)

(Smith, 1994 Henderson, 1980)

Kamhi, Catts, &) (encoding)

.(Smith, 1994) (Mauer, 1990

.(Torgesen, et al, 1990)

auditory -)

.(sequential memory

)

(

()

()

(form)
.()
(general organizational plans) (association)

Declarative knowledge -1

.(semantic)

Procedural knowledge : () -2

(conditional knowledge)

-3 -3

.()

.()

.()

.(Mercer, 1991) .

()

.(Schemas)

.packaged

()
(Metacognition skills) ()

" " " "

.(rehearsal)

(Law of primacy)

Vaughn Bauuer, 1979)

.(and Boss 1994

(cues)

()

(orgeson, 1982)

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