STRONG BODIES, READY HANDS: THE PLAYGROUND PATH TO HANDWRITING The Whole Child Alphabet

STACY BENGE, M.S.

Objectives

identify the importance of physical development

discover developmental stages

understand physical development and handwriting

create learning environment and experiences

sharing with stakeholders



poll

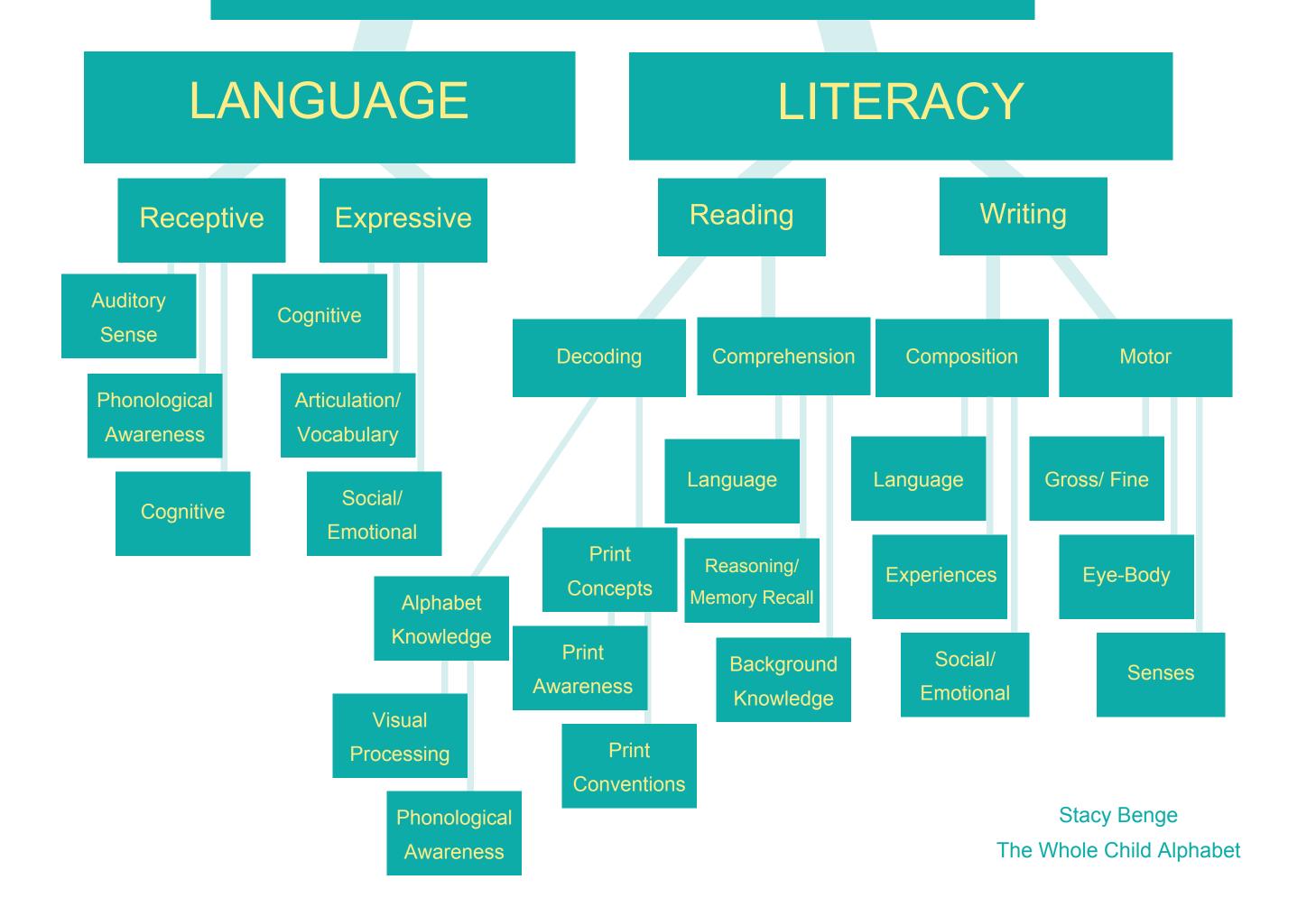
Which play experiences developed handwriting?

- Climbing trees
- Playing play dough
- Spinning on swings
- Playing dolls
- All the above

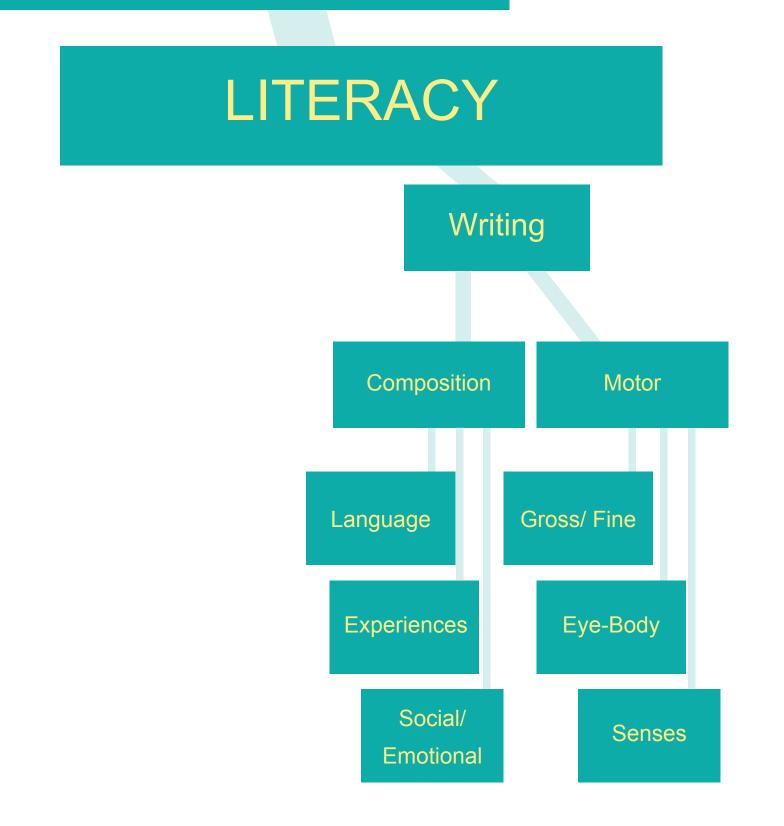
early literacy is the whole child

developmental foundations

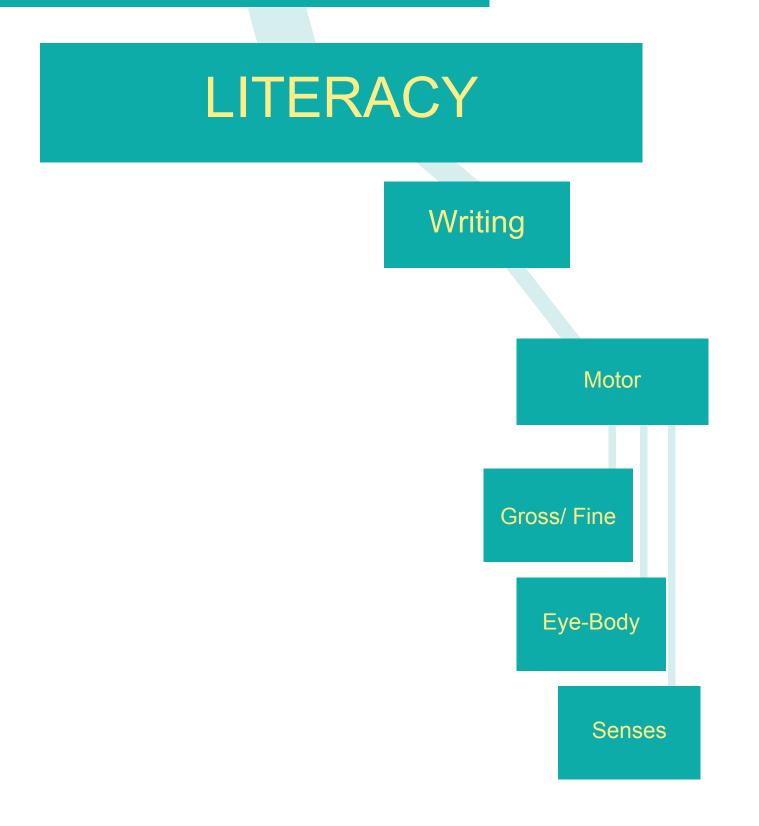
EARLY LITERACY



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literacy

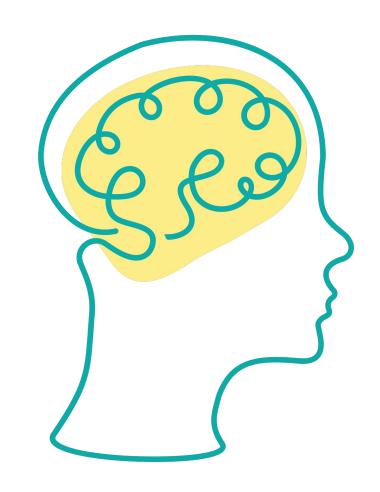
It is not a matter of teaching; rather,

it is a matter of developing.



the brain

wired for survival



lean muscle

strives for proficiency

seeks efficiency

Experiences wire the brain; repetition strengthens that wiring.



Children's brains tell their bodies what they need; their actions tell us.





rolling

spinning

jumping

running

twisting

bending

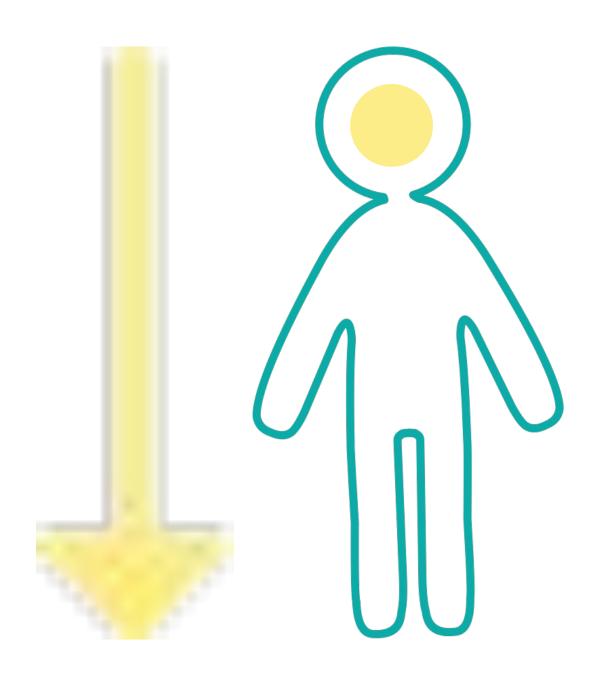
physical development

components

gross and fine motor

Cephalocaudal/ Proximodistal

Cephalocaudal



Proximodistal



By nature's design,

this logical progression ensures the larger muscles are ready to support and transport smaller muscles for more refined, detailed activity



Mobility on Stability

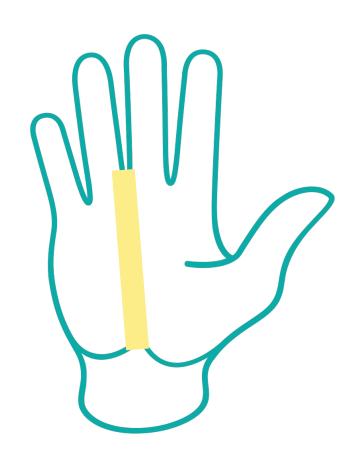
seek stability

Fine Motor Development

separation of hand

fine motor strength

Separation of Hand







mobility on stability

poll

What age do children typically develop efficient pencil grasp?

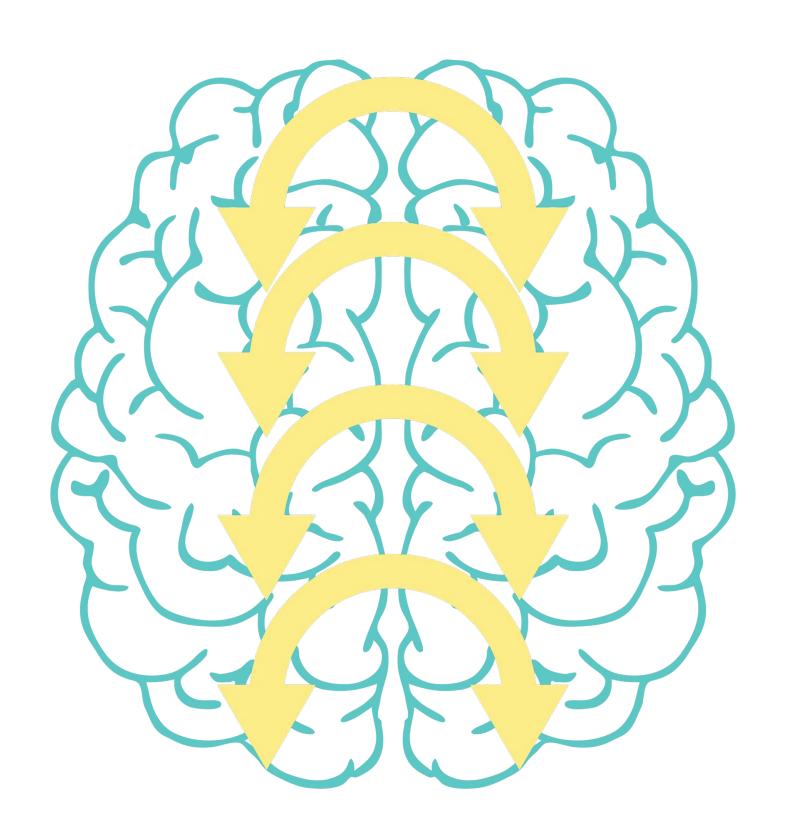
- 1 2 years
- 2.5 3.5 years
- 4.5 6 years
- 9 10 years

Acquisition of an efficient pencil grasp is a process pattern development that usually settles in later between 4.5 and 6 years old for typically developing children.



midlines

Crossing Midlines



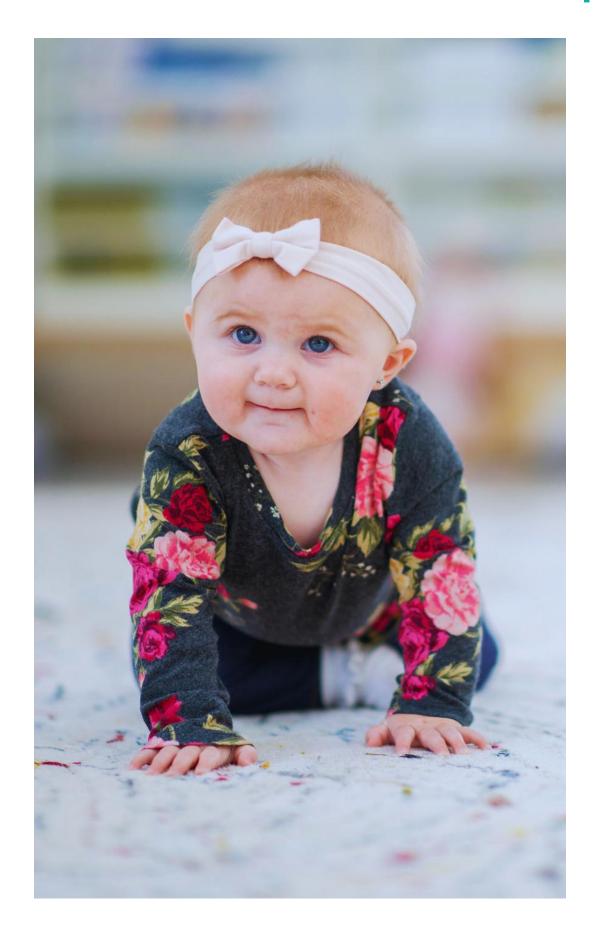
As midlines develop, they help children isolate individual body parts for independent movement, then work to coordinate movements involving multiple parts of the body.



bilateral coordination - symmetrical



bilateral coordination - reciprocal



bilateral coordination - asymmetrical



bilateral coordination - asymmetrical



internal senses

Vestibular

The vestibular system controls five major aspects of everyday living:

posture, balance, alertness,

concentration, and stillness.



Proprioception

Proprioception regulates how much force you need to use when completing tasks, such as ... writing with a pen without ripping the paper.



how do these systems develop?

Much like a muscle, if the vestibular and proprioceptive systems are not engaged and challenged,

Stacy Benge, The Whole Child Alphabet

they will not grow and develop.





handwriting

development

handwriting relies on entire body being fully developed and stabilized

non-dominant hand

the whole child alphabet

non-dominant hand

language and literacy

compensating to complete task



compensating to complete task





learning environments

and experiences

experiences

to build handwriting





Toddlers (12months to 3 years) could benefit from at least five to eight hours' worth of active play a day, preferably outdoors...

Preschoolers (3 to 5 years) could also use five to eight hours of activity and play outdoors every day



heavy work



climbing

digging

building

carrying

filling/dumping



crawling rocking all fours bear crawl hermit crab body bridge hand press



nwob əbisqu gnignsh



materials

the floor

vertical surfaces

materials

crawl tunnels

scooter board

wiggle disc

riding toys

baskets/boxes

wheelbarrow

hula hoons

materials

sensory table

building materials

finger puppets

play dough

clothespins

scissors

04011040

group time



transitions



crawling

bear crawl

hermit crab

side stepping

walk backwards

hopping

big body experiences mazes hot lava

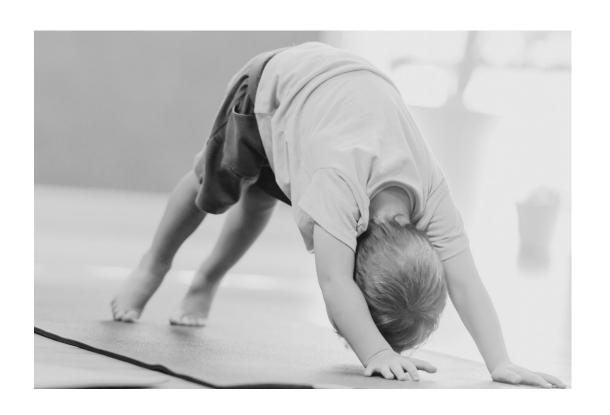
blanket pull

bear hunt

music and movement



yoga/ stretching









moving forward

call to action

action plan

encourage play and movement

design environment/ experiences

identify and address barriers

poll

What hesitations prevent conversations with stakeholders about handwriting? (check all that apply)

- Not sure how to get conversations started
- Lack of confidence in having the conversations
- Misconception of what all handwriting entails
- Pressure from stakeholders to get children ahead

sharing with stakeholders

invite the conversation

focus on child development

be knowledgeable and confident

advocate for child-led play

talking points

before children can write, they need to develop

core/ trunk stability - hold body upright and support shoulders

shoulder stability - support and bear weight of entire arm

wrist stability - support movement of hand

hand stability - support movement of fingers

vestibular - keep eyes, body, and hands steady

proprioception - regulate strength for holding pen

midline development - stabilize one hand while taking other across body









spinning

running

jumping

upside down















we are the experts

developmentally informed, developmentally responsive, developmentally meaningful

references

references

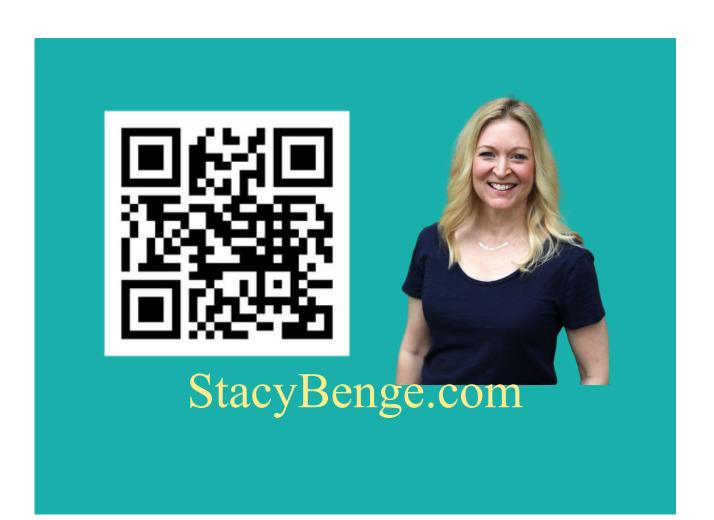
The Whole Child Alphabet: How Young Children Actually Develop Literacy
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Fine Motor Skills... Write out of the Box!

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Gill Connell and Cheryl McCarthy

Balanced and Barefoot
Angela Hanscom







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Master Class:

How to Use Movement to Reduce Challenging Behaviors and Build Lifelong Success

Prerna Richards & Stacy Benge



November 1, 2025

2:00 - 3:30 PM CDT



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physical development

cephalocaudal/proximodistal

mobility on stability

fine motor development

physical development

midlines

vestibular

proprioception

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materials

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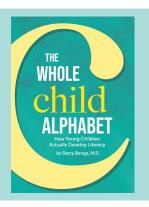


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