Brain Development in 3 to 6 year olds

& How Parents Can Influence It

Designed & Published by

Flintobox

Flintobox , in the interest of early child development, creates discovery boxes for children between the age of 3-7.

Your child's brain; at birth

Infant Brain is 25% of its adult size at birth*

This increases to about 60% by the age of 1.

Healthy babies who receive plenty of maternal reassurances during stressful times actually have larger brains than babies who don't get as much motherly nurturing.

The number of synapse in a child is dependent on the early experiences and environment of a child.

What then, is synapse and why is it so important?

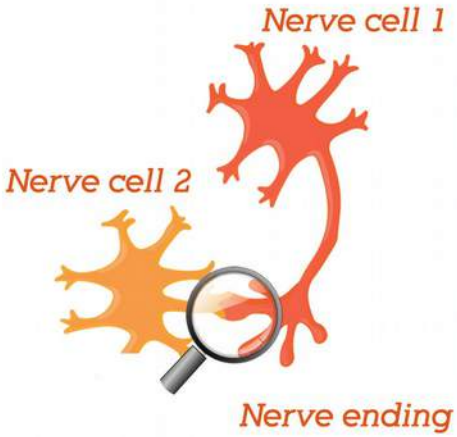
* *National centre for infants, toddlers & families, Washington DC.*



Synapse

What's the big whoop?

As the baby grows, the brain cells form connections called SYNAPSE. Synapse is the one that passes information between various parts of brain.



A new born baby has only enough synapse to breathe, eat, sleep etc.

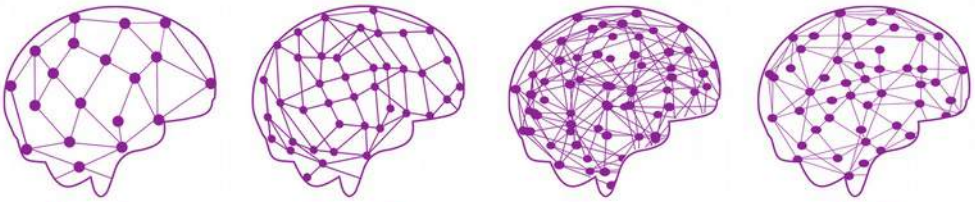
Synapse grows at an alarming rate during the ages 0-3.

DID YOU KNOW?

Strength of one's memory & cognitive abilities is proportional to number of synapse.

Blooming- 'Tis the time

The process of brain creating more synapse, is called BLOOMING.



New born *2 months* *3 years* *Adult*

Between the age of 2-3, the brain has bloomed twice as many as synapse. At no other time will so many synapse develop in one's lifetime. During this time the number ofsynapse is driven by genes.

DID YOU KNOW?

At the age of the 3, the child's brain has close to 1000 trillion synapse.*

So what drives it from the third year?

* *Publishing by North Dakota State Univ.*

Pruning

Use it or loose it

The process of brain eliminating unused synapse is called PRUNING.

3 years

1000 trillion synapse

Adult

10 million synapse

Why pruning happens?

1. Synapses that are rarely stimulated (used) become weak and are eliminated (pruned).
2. Synapses that are stimulated (used) often become stronger and complex.
3. Pruning starts at 3 and mostly slows down only after 8 years of age . It almost stops at adolescent stage.
4. While the number of synapse at the age of 3 is related to genes, the number of synapse at the age of 8 is determined by the experience and the environment of the child. *

How can you ensure that your child does not lose more synapses before 8 years?

* *The Urban Child Institute, Memphis, TN.*

Early sensory experiences keep the synapses alive

Children need to be actively engaged in 12 different areas to strengthen their synapse and develop holistically

GROSS MOTOR

FINE MOTOR

COMMUNICATION

COGNITIVE

SENSORY

SOCIAL

LOGICAL REASONING

BALANCE

IMAGINATION

THINKING & PROBLEM SOLVING

ACADEMIC

CONFIDENCE

DID YOU KNOW?

The more frequently these areas are engaged, the stronger synapses become, thus giving the child a fighting chance in this competitive world.

Ways to Actively engage your child

Take them out to the playground.

Introduce them to new concepts.

Eccourage them to make new friends.

Explore their creative side.

Spend quality family time.

Make your house their personal gallery.

Read storeis together.

What is Flintobox?

Award winning discovery boxes filled with fun exploratory activities and games for children **(Age 3-7 yrs)**.

Learn more about us at

www.flintobox.com

What Parents Say

"My kid is 5 and half years old and he's using Flintobox, it's amazing, my boy is very happy and I'm. He looks forward to his Flinto time. Great work flinto team." - Harshini

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