



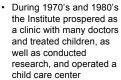
#### Brief History of Arnold Gesell and the Gesell Institute of Human Development

- Arnold Gesell, PhD, MD, 1880 1961
- 1911 came to Yale, founded Yale Child Study Center
- Used technology—cinematography—to systematically document and study child development as no other had done before him
- Father of Child Development or Father of School Psychology



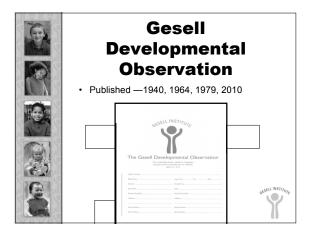
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- 1950 retired from Yale and established the nonprofit Gesell Institute for Child Development
- Died in 1961 and Drs. Louise Bates Ames, Janet Rodell, and Frances Ilg continued and expanded Gesell's work

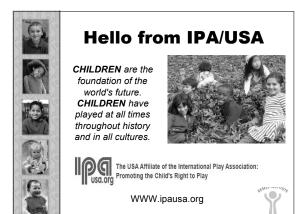














# **Right to Play**

UN Convention on the Rights of the Child

- International treaty that sets out universally accepted • rights for children, 1989 Supersedes Declaration of the Rights of the Child •
- adopted in 1959. Article 31 of the UN Convention

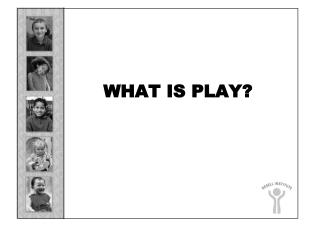
- That every child has the right to rest and leisure, to engage in play and recreational activities appropriate to the age of the child and to participate freely in cultural life and the arts.
- That member governments shall respect and promote the right of the child to participate ......





**United States is the** only country that has not ratified the 1989 **Convention on the Rights of the Child!** 

www.childrightscampaign.org





#### WHAT IS PLAY?

PLAY, along with the basic needs of nutrition, health, shelter and education, is vital to develop the potential of all children. PLAY is communication and expression, combining

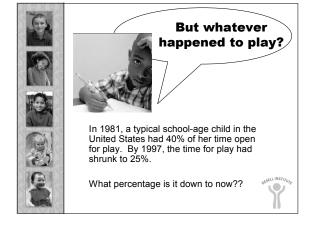
**PLAY** is communication and expression, combining thought and action; it gives satisfaction and a feeling of achievement.

achievement. PLAY is instinctive, voluntary, and spontaneous. PLAY helps children develop physically, mentally, emotionally and socially. PLAY is a means of learning to live, not a mere

passing of time.

**PLAY** is the child's way of learning. **PLAY** is the work of the child. (Piaget)



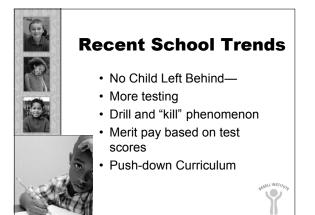


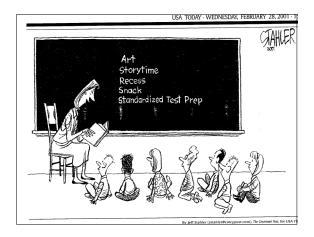


# Recent research suggests that

- In the last two decades children have lost 8 hours of free play per week
- 30,000 schools in the United States have eliminated recess to make time for more academic study.

Elkind, (2008) Greater Good







# Kindergarten is now our new first grade!

- Crisis in the Kindergarten!
- Children must be readers by the end of the K year
- · Sit in desks and "learn"
- Teaching to the test—isolated "factoids"
- Ignoring everything we know about how young children learn
- No time for play!



# How Young Children Learn

- Early Childhood defined as birth to age 8 years
- During this period young children learn in different ways than older children
- Learn through physically interacting with environment—both people and things
- Use their all their senses
- Build new knowledge based on old knowledge—"stair-steps analogy"



### Developmentally Appropriate Practice

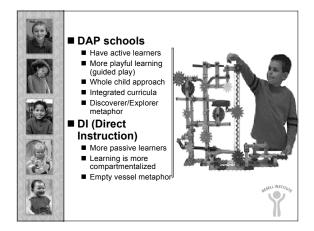
- Simply means that activities and instruction are designed to match the stage of development for each child because.....
- Each child develops at his/her own rate
- Sooner or faster not better and later is not worse or wrong!

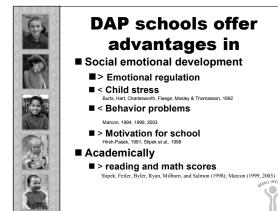


#### **Research on Developmentally** Appropriate Practice

Comparisons between developmentally appropriate (DAP) and more traditional "academic" direct instruction (DI) schools show many benefits for children in DAP schools.

Hirsh-Pasek, Golinkoff, Berk, & Singer. A mandate for playful learning in preschool: Presenting the evidence. Oxford University Press, 2008.







#### **Montessori study** found....

- · Greater benefits for children in Montessori education over the more traditional education
- Classrooms are more ٠ developmentally appropriate
- · Embrace a metaphor of learning that is much more playful in approach
- · Children are active and less passively involved in learning

--Lillard & Else-Quest, 2006



# The results suggested that...

- Children in Montessori classrooms at age 5 yrs. did...
  - Better in social tasks that required positive peer play Better in tasks that required attention to another person's beliefs
  - Better in academic tasks like reading and math
- · At age 12 years these children...

  - Liked school more
    Were more creative in their writing
  - Did better in reading and math



#### And yet another recent study (Diamond, Barnett, Thomas & Munro, Science, 2007)

- Using *Tools of the Mind* curriculum helped children develop executive function skills (EF); e.g., inhibitory control, working memory and cognitive flexibility
- EF skills highly correlated with positive outcomes in math and reading
- With playful learning *throughout the day*, standardized tests scores increase -- even for poor children.



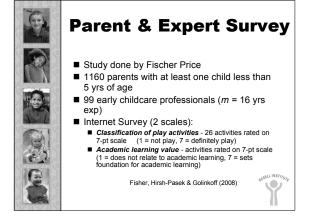
# **WHY???**

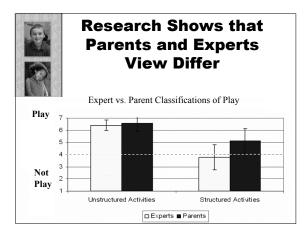
Because children were more actively engaged and learned more through play!

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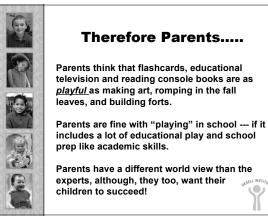












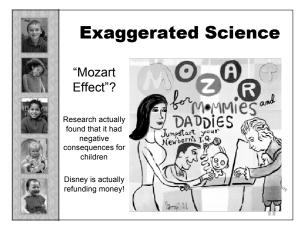


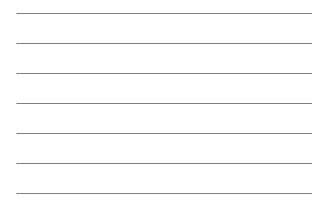


Marketing ploys







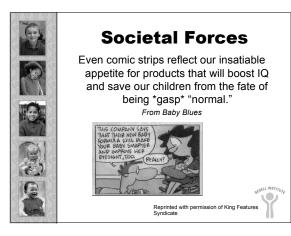


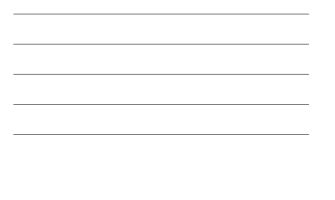


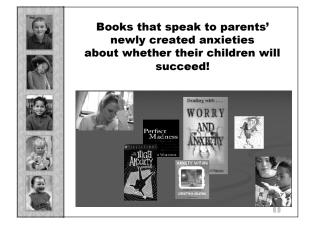
#### The REAL Evidence

Professor Lois Hetland (Harvard) examined 67 studies on the "Mozart Effect" with 4,564 adults

"the existence of a short-lived effect by which music enhances . . . performance in adults does not lead to the conclusion that exposing children to classical music will raise their intelligence."

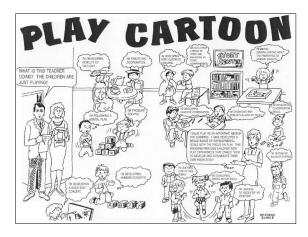


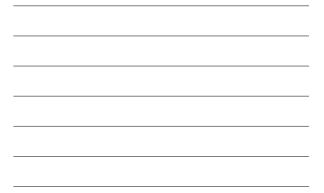














#### American Academy of Pediatricians

"The Importance of Play yin Promoting Healthy child Development and Maintaining Strong Parent-Child Bonds" -- October 2006

They wrote:

These guidelines are written in response to the multiple forces challenging play. The overriding premise is that play (or some available free time in the case of older children and adolescents) is essential to the cognitive, physical, social, and emotional well-being of children and youth.



#### FACT

Success in the global workforce of the 21st century requires that our children be skilled in the 5C's

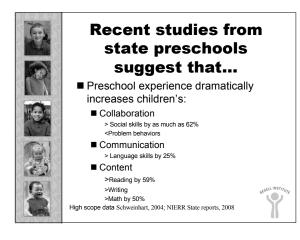
•Collaboration (teamwork)

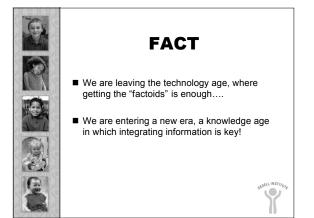
- •Communication (speaking & writing)
- •Content (reading & math, science and history)

•Creative Innovation and problem solving

•Confidence (to take risks and learn from mistakes)

Fisher, Hirsh-Pasek & Golinkoff (2008)







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DANIEL H. P

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#### Daniel Pink (2005), author of *A Whole New Mind* writes:

"The past few decades have belonged to a certain kind of person with a certain kind of mind-- computer programmers who could crank code, lawyers who could craft contracts, MBAs who could crunch numbers. But the keys to the kingdom are changing hands.

The future belongs to a very different kind of person with a very different kind of mind

- creators and empathizers, pattern recognizers, and meaning makers. These people -- artists, inventors, designers, storytellers, caregivers, consolers, big picture thinkers -- will now reap society's richest rewards....

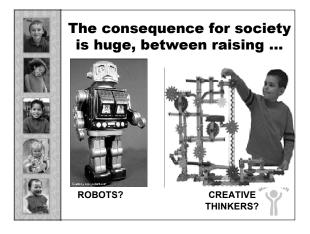


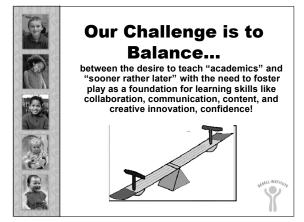
#### Partnership for the 21<sup>st</sup> Century Skills writes:

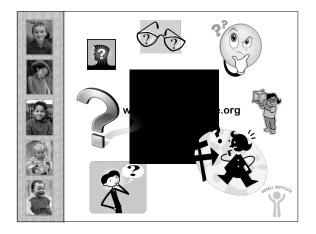
(September 10, 2008) In an economy driven by innovation and knowledge ... in marketplaces engaged in intense competition and constant renewal ... in a world of tremendous opportunities and risks ...in a society facing complex business, political, scientific, technological, health and environmental challenges ...and in diverse workplaces and communities that hinge on collaborative relationships and social networking ... the ingenuity, agility and skills of the American people are crucial to U.S. competitiveness.



21st Century Skills: Education and Competitiveness



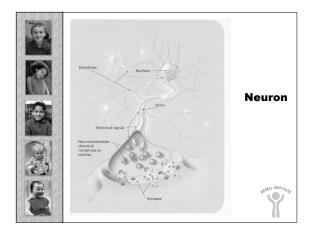




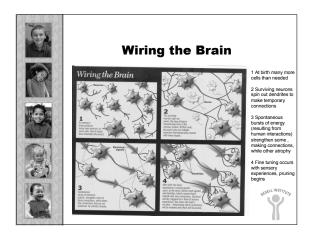




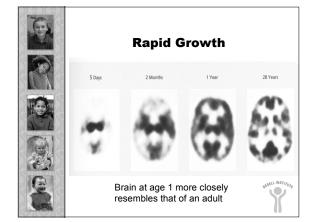
- Most current thinking on cognitive development!
- Brain cells are called neurons
- Neurons have a head called a nucleus, an axon (usually one) that sends signals, and many many dendrites that receive signals
- When the axons and dendrites meet they form a synapse and exchange impulses
- The forming of synapse after synapse is what forms the "wiring" or "architecture" of the brain

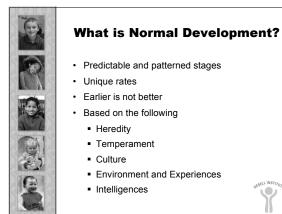














#### Normal Development Can...

- Be sporadic and inconsistent
- "Appear" to have setbacks
- Include negative and positive behaviors, both of which help the child grow and develop