



Cyprus Pedagogical Institute Play Seminar, February 2019

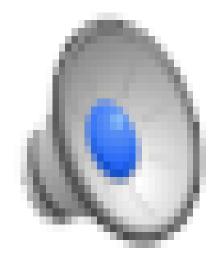
How does play-based learning help children to become powerful learners and able citizens?



Dr. David Whitebread University of Cambridge



Play: why do we do it?



Structure of the Talk

- 1. The importance of play: the evidence
- 2. The 5 types of play
- 3. How play supports learning and development
- 4. Implications for policy & practice

1. The importance of play

• Play is characterised as:

- a type of activity which is essentially unimportant,
 trivial and lacking in any serious purpose
- something that children do because they are immature,
 and as something they will grow out of as they become adults

• On the contrary, play:

- Is one of the highest achievements of the human species
- Enables the development of language, the arts, culture, science, mathematics and technology
- Supports self-regulation and other key developmental mechanism

The importance of play in early development

The importance of play

Dr David Whitebread

University of Cambridge

With Marisol Basilio, Martina Kuvalja and Mohini Verma

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Play & Learning: the evidence

Considerable body of research providing circumstantial or correlational evidence, of a general relationship between children's play and aspects of their development

Includes work in:

- Evolutionary psychology
- Developmental psychology
- Anthropology





Evolutionary psychology

Bruner (1972) Nature & Uses of Immaturity

- phylogenetic progression of play: physical (mammals)/ object (primates) / symbolic (humans)
- proposed mechanisms: representational abilities,
 'flexibility of thought'

Pellegrini (2009) play:

- allows focus on 'means' rather than 'ends'
- exploratory and iterative behaviour patterns



Anthropology

Peter Gray (2009 & 2012)

- children's unconstrained play in hunter-gatherer societies
- relationship between loss of play opportunities and increase in child psychopathology

Developmental psychology

Play associated with:

Tamis-LeMonda & Bornstein (1989): early cognitive ability

Bornstein (2006): emotional well-being



Christie & Roskos (2006): early language development

Educational studies

Play-based curricula associated with improved:

Diamond, Barnett, Thomas & Munro (2007): executive function

Marcon (2002): long-term academic, motivational and well-being outcomes by the end of primary school

Sylva, Melhuish, Sammons, Siraj-Blatchford & Taggart (2004): academic and social development

Darling-Hammond & Snyder (1992): reading, maths and social/emotional adjustment in school.



2. The Five Types of Play Physical Play

Exercise play: strength and endurance, whole body co-ordination

Rough and tumble: emotional attachment, emotional and social skills

Fine motor practice: hand-eye co-ordination







Play with Objects

Sensory play, sorting, building and making

Thinking, reasoning, problem-solving and Creativity

'Private speech' and self-regulation

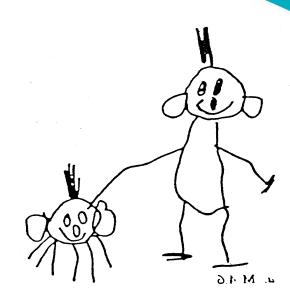




Symbolic Play

Language, Visual media, Music

Early language development, communication skills, literacy, numeracy, artistic creativity







Musical play (Zachariou & Whitebread, 2015)



• Evidence of significant cognitive, emotional and social self-regulation during musical play

Pretence



Objects, Roles, Stories

Narrative skills, social and groupwork skills, self-regulation of emotions and behaviour





Games with Rules



Physical, Board & card games, Computer games

Understanding rules, social skills, discussion skills







3. How play supports learning and development A. Play mechanisms

Reduces stress

 Risky play, stress reduction, resilience & mental health (Sandseter, et al, 2015; Whitebread, 2017)

Provides cognitive & social challenges

 private speech and abstract, flexible thinking; language and social interaction (Vygotsky, 1967, 1978; Bruner, 1972, 1983; Christie & Roskos, 2006)

Supports self-regulation

Developing mental strategies, learning how to learn (Hyson,
 Copple & Jones, 2007; Ponitz, McClelland, Matthews and Morrison,
 2009; Whitebread, 2010; Barker et al, 2014)

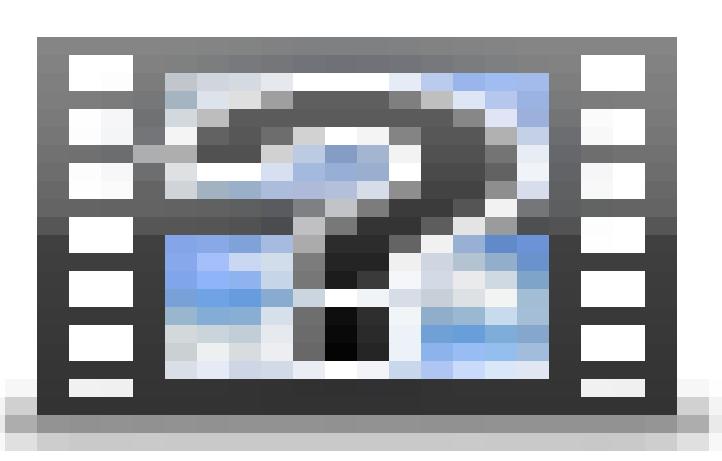
Provides meaningful subjective experience

- Flow (Csikszentmihalyi & Nakamura, 1979; Howard & McInnes, 2009)

B. Adult participation in children's play

- Social pretend play (Whitebread & O'Sullivan, 2012): enhancement of complex social pretend play through adult involvement: increased socially-shared regulation
- Guided play (Golinkoff et al, 2008) involves:
 - A planned play environment, enriched with objects and toys which provide experiential learning opportunities
 - Teachers co-playing, asking open-ended questions, suggesting ways to explore materials
- Adult modelling (Nielson & Christie, 2008)
 - Study with 2-3 yr old children
 - Adult acted out a sequence of pretence activities with dolls
 - Subsequent children's play with dolls involved many more imaginary acts, both copies of adult acts and novel

Guided play Playful Writing: the Movie

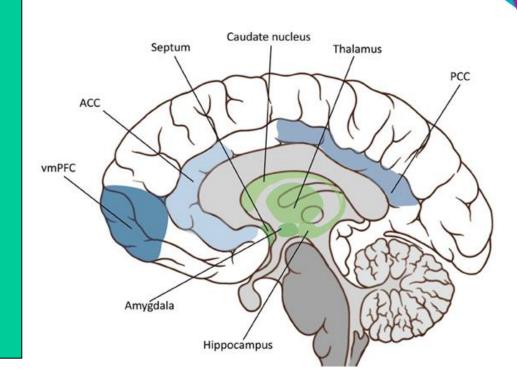


C. The characteristics of play

Liu, C., et al. (2017). Neuroscientific evidence on the connection between characteristics of playful experiences and learning. The LEGO Foundation, DK.

Five characteristics of play (Hirsh-Pasek et al., 2015)

- Joyful
- Meaningful
- Actively Engaging
 - Iterative
- Socially interactive





4. Implications for policy& practice

Young children are likely to develop as powerful learners who are emotionally well-adjusted where:

- they have a balanced range of play opportunities across the 5 types of play, and across the curriculum
- •they play alone, with other children and with adults
- •some of their play is 'free' or initiated by themselves and some is guided by an adult co-player
- they are introduced to new ideas and skills through playful activities
- •this approach is supported in the home and the school





Thank you for listening!









More information about the research centre can be found at:

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