



The Importance of Play

Play is one of the most essential activities babies do. Through play, babies explore their environment and make sense of new and different information. The experiences babies have during play help strengthen and expand networks of connections in their developing brains.

During the early years, babies' brains form many more connections than the brain will ever need. Connections used regularly become stronger and branch out into more complex networks. Connections not used regularly are eventually eliminated through pruning (much like you prune a bush to promote new growth). Play is crucial for brain development because it gives babies and young children opportunities to experience new things and practice existing skills, which strengthens networks of brain connections.



► What Babies Learn While Playing

Some adults who watch children playing believe they are not doing anything very important. But if you watch carefully, you may notice that babies who are playing are actually practicing some complex and important skills. All of these experiences help strengthen connections in the brain:

- **Exploring new objects.** During play, children use all of their senses to explore things in the world around them. They may hold objects close to their eyes, drop them to hear the sound they make, or even place them in their mouths.
- **Testing how things work.** When babies sit in a high chair and drop things on the floor, they learn about cause and effect. A rattle bounces and makes a noise; a glass shatters; and a handful of cottage cheese spatters.

By experimenting, children begin to figure out what happens next and how different objects work.

- **Practicing and expanding skills.** Children may try something new during play, and then repeat it over and over again until they perfect it. Children may also “accidentally” do something new. For example, a baby playing with crayons may accidentally press hard enough to leave a mark on the paper. He might look at that mark, decide it’s interesting, and try to repeat the motion to make another mark. What began as an accidental discovery begins a process of building connections in the brain, leading to further discoveries.
- **Making decisions.** Play is a child-directed activity. Children decide whether they want to play, what they want to do, how they will do what they choose, whether to play with others or alone, and when to switch to another activity. Making these types of decisions gives children confidence and prepares them to make bigger decisions as they get older.
- **Trying out new roles.** Pretend play gives children chances to test out the roles of different people around them. As they explore being a parent or a teacher or a firefighter, their understanding of the world expands, and they begin to recognize that different people see things differently.



- **Coping with stress.** Pretend play can be an important way for children to make sense of stressful situations. Through play, they can gain control over the monsters that frighten them at night or better deal with the changes that come with moving to a new house.

► What Can You Do?

Even though play is a child-directed activity, parents and caregivers can help support and encourage young children's play. Here are some simple ways to help build brain connections through play:

- **Provide new experiences.** Take babies to interesting places. Give them new materials to explore. Remember that new experiences don't need to be expensive. A simple trip to the library or park, or a pot and wooden spoon, can provide new ideas for play.
- **Give time to try new ideas and practice skills.** Complex play requires time. Children who are hurried from one activity to another do not have time to focus, experiment, and find new solutions. Plan blocks of playtime during the day, and allow plenty of time for children to do something that interests them. If children are engrossed in a play activity when playtime is over, consider giving them some additional time to keep playing. Remember how essential play is to brain development.
- **Allow space to explore.** Instead of teaching children how to use a new object, encourage them to test it out on their own. Wait until your child seeks your help. Adults who hover or take over when children are playing mean



well, but they may actually discourage children from exploring on their own.

- **Support their play.** Adults can encourage and expand children's play by modeling other things to do with a toy or material, by making suggestions, by describing what you are doing with the object, or by asking "what if" questions, like "What would happen if you mixed the red and blue paint?"
- **Allow quiet time to consolidate learning.** Children's brains, like adults' brains, need time to make sense of new things they learn. Instead of racing from one activity to the next, give children a little bit of unstructured quiet time between activities to relax, take a deep breath, and process what they have just learned.

Selected References:

- Bales, D. W., Falen, K., Butler, T., Marshall, L. E., Searle, L., & Semple, P. (2012). *Better Brains for Babies Trainer's Guide, (2nd ed.)*.
 Brown, S., & Vaughan, C. (2009). *Play: How it shapes the brain, opens the imagination, and invigorates the soul*. New York, NY: Avery.
 Hughes, F. P. (2010). *Children, play, and development (4th ed.)*. Thousand Oaks, CA: Sage.
 Wilson, D., & Conyers, M. (2013). *Flourishing in the first five years: Connecting implications from mind, brain, and education research to the development of young children*. Landham, MD: R & L Publishing.

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For more information about brain development, visit www.bbbgeorgia.org

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