

Recent studies suggest that behavioral problems in children 2-3 years of age may occur if they sleep less than **11** hours at night. Children this age should sleep up to 13 hours at night.

Lack of sleep can cause behavioral problems such as acting out, behaving aggressively and hyperactively. Conversely, children's behavioral problems have been said to contribute to a lack of sleep in children.

Different children need various amounts of sleep. If a child does not look well rested, he probably needs more sleep.

Waking up at night, a problem that occurs in 33% of children 2-4 years old, can also cause behavioral problems.

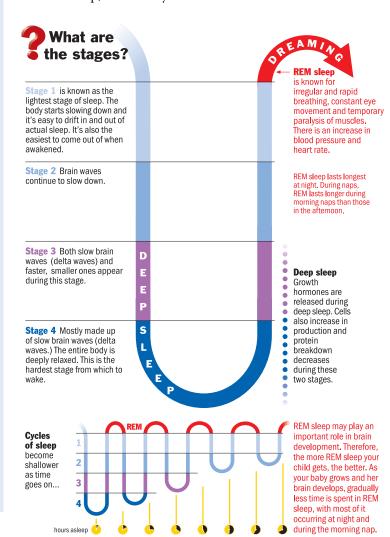
Researchers believe that regular amounts of sleen deprivation may have long-term effects on brain function.

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Studies on rats show that sleep is necessary for survival, demonstrating that life expectancy decreases with sleep deprivation.

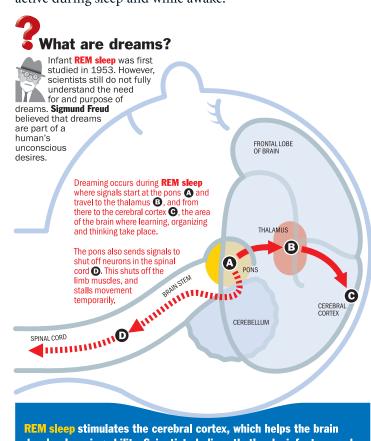
Sleep is a dynamic activity.

The five stages of sleep progress in a cycle from stage 1 to **REM** sleep, then the cycle starts over.



The brain is always active.

Since the 1950s, we've learned that our brains are very active during sleep. Neurotransmitters, or nerve-signaling chemicals in our brains, control whether we are asleep or awake. Neurons, which connect the brain to the spinal cord, produce other neurotransmitters which keep some parts of the brain active during sleep and while awake.



What are the stages of sleep?

While sleeping, both adults and children pass through 4 stages and REM (Rapid Eye Movement)—in repeating cycles throughout the night.

Sources : NINDS Brain Resources and Information Network; Healthy Sleep Habits, Happy Child, Marc Weissbluth, MD; Guide

develop learning ability. Scientists believe that's why infants spend 50% of their time in REM sleep.

ACTION ITEMS

The ABCs of catching ZZZZZs

What's the best way to help your child develop good sleep habits? There are many expert views about what role parents should play when it comes to helping their children develop good sleep habits. Ultimately, the choice is yours. If you like an approach that:



is lenient about responding to your baby when he cries during the night and emphasizes consistent bedtime routines and positive sleep associations, check out Dr. Jodi Mindell's book, Sleeping Through the Night: How Infants, Toddlers and Their Parents Can Get a Good Night's Sleep.

advocates sticking firmly to routine and letting your child cry at bedtime for extended intervals of time before you provide her with comfort, read Dr. Richard Ferber's book, Solve Your Child's Sleep Problems.

focuses on training your baby to go to sleep and comfort himself on his own by keeping nighttime feedings short, waking him if his daytime naps last more than a few hours and using your voice or a gentle pat to comfort him when he cries, try the American Academy of

> Pediatrics' book, Guide to Your Child's Sleep.

promotes the family bed ᡋ emphasizes the and other ways of being there for your child to provide a comforting, relaxing sleep environment, look at Dr. William Sears' book, Nighttime Parenting.

prevention of sleep problems and teaches healthy sleep habits by synchronizing soothing techniques with your child's natural rhythms, read Dr. Marc Weissbluth's book, Healthy Sleep Habits, Happy Child.

AND REMEMBER.

whichever approach you choose, be consistent.

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to Your Child's Sleep, American Academy

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An excerpt from the book Understanding Children, by Richard Saul Wurman and Civitas, © 2002.

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