



## What Happens When We Sleep?

We usually think of sleep as like switching off a light: we go off to sleep, and then wake up again hours later, with nothing much happening in between. In fact, the truth is very different.

For starters, sleeping doesn't mean lying still. The average person moves around between 40 and 50 times a night!

Also, a lot is going on in our bodies when we sleep. Muscles tense and relax; our heart rate, temperature and blood pressure rise and fall; the brain remains active and chemicals course through the bloodstream.

We also undergo several different types of sleep each night. The main division is between REM sleep and non-REM sleep. REM stands for Rapid Eye Movement, and in this type of sleep our eyes move around very fast behind our closed eyelids. This is the time when we have all those weird and wonderful dreams (or nightmares!). Dreams can also occur in non-REM sleep, but these are usually far less memorable. About a quarter of our sleeping time is spent in REM sleep.
The most important type of non-REM sleep is deep sleep, during which we are most at rest and our bodies get thoroughly refreshed and recharged. Up to half our sleeping time is spent in deep sleep.

Instead of following one after the other, the different types of sleep alternate during the night in periods of about 90 to 100 minutes each. Both types of sleep are vitally important, and missing out on them can cause many problems.

Snoring usually only occurs during non-REM sleep.

## How Much Sleep Do We Need?

Babies need the most sleep - up to 18 hours a day! For the average adult aged between 25 and 55, eight hours is considered the best. Teenagers need as much sleep as small children (about ten hours); those over 65 need the least of all (about six hours).
In fact, according to sleep experts, teenagers have a rough time with sleep. Not only do they need more sleep than adults or younger children, but their own body clocks also tend to keep them awake later in the evening and keep them sleeping later in the morning. This
 can obviously be a problem, as many schools begin classes early in the morning, when a teenager's body wants to be asleep. As a result, many teens come to school too sleepy to learn, through no fault of their own! So if you are, or know, a teenager who is having trouble getting to school on time or feels drowsy in lessons, you can now smugly tell teachers (and parents) that the human biological clock is to blame and not just laziness!
Nick Hobbes
© John Good
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© John Good $\qquad$ joyful King and Queen That at last they have a Baby, the

Bonniest you've seen.
© is for the Christening, a fabulous affair and $\mathscr{D}$ the $D_{\text {roves of happy guests, }}$ Delighted to be there. ${ }^{\mathcal{E}}$ is the $\mathcal{E X}_{\text {Eception, the one they }}$ couldn't find Amongst the $\mathscr{F}$ for Gairies, let's hope she doesn't mind...
$\mathscr{C}$ are the $C$ orgeous $\mathcal{C}$ ifts they bring to fête the young princess Beauty, personality and lasting FPappiness. Tn comes the slighted fairy with an evil $\operatorname{Incantation}$ dispelling all the oy and creating consternation.
She condemns the girl at sixteen upon a spinning wheel to prick her pretty finger, Which will her lifeblood steal. The guests are stunned but,
Happily, there's one last fairy who has not bestowed her christening gift
And now steps forward too: "I cannot stop this curse,
But the princess will not die but sleep a hundred years until a prince is passing by And, braving many dangers, he'll find our lovely miss and fall in love And wake her with a single loving $\operatorname{Th}_{\text {iss. }}$ $\mathscr{L}_{\text {ove is the }} \mathscr{L}$ to conquer all, despite this wicked OMagic, The happiness is just postponed - the ending won't be tragic. The King orders all Cleedles to be banished from the land; Alas!

The curse must be fulfilled - the princess pricks her hand, She's hardly time to cry out 'Ow!' before she falls asleep.. And all those in the Palace in a slumber very deep.
Long years pass and many hopeful princes try their luck taking On The 2 for Quest, but mostly they get stuck No Ror Roses there, but ©orrow born of malice In a vicious hedge of Thorns which grows up around the palace.
A hundred years have passed when another prince comes by Old men call him Qnwise to climb the thorny hedge so high, But this young prince is $Q_{\text {irtuous and }} Q_{\text {ery }}$ Waliant too; $^{\text {and }}$ He is prepared to risk his life, this strange princess to View. The time has come, he's through the hedge And finds the palace, roaring: "OWakey, Wakey, everyone!" But all he hears is snoring. From King to cook and Queen to maid,

The fairy foretold this, that no-one should wake up before
That very special kiss. But oh the great ec citement
When the evil spell is broken, the prince and princess shyly share
Their new-found true love's token. He ields his loving heart to her And she in modest way, says, "Welcome, sir,
Let's pledge our love and Bury ${ }^{Y}$ esterday! You are The one the fairy told, it's in Your $\mathscr{L}_{\text {odiac so everyone }}$ Must celebrate We won't be Looking back!"

## Wicken <br> Worrdseatrch

M S A Y T U A E B F O I P U A O I F X V O K V I H C L L F W O D I G P S I U H N W I P Y K R N N E T K S Y Y B X N Q R T R E V D L B E S H R T J I I C F S H L M R S C S O I A L N Q P T L E R Z $\quad$ E L O A I C G W M H F U V $\begin{array}{llllllllllllll}\mathbf{U} & \mathbf{X} & \mathrm{L} & \mathrm{K} & \mathbf{E} & \mathbf{D} & \mathbf{F} & \mathbf{E} & \mathbf{E} & \mathbf{W} & \mathbf{S} & \mathbf{V} & \mathbf{L} & \mathbf{K} \\ \mathbf{E}\end{array}$ C W W T L J J E L D P L H S E D S T Z D P I O H K E A U I R S A B W R S P I O R $\mathbf{Q}$ E $\mathbf{P}$ K E $\mathbf{N}$ C $\mathbf{C}$ H A $\mathbf{N}$ T $\mathbf{E}$ D L $\mathbf{G}$ E A $\quad \mathbf{S}$ V $\quad$ T I I H A $\mathbf{S}$ J S $\mathbf{N}$ N R O H T H R E W O T G D N W T S V J M

The wicked old fairy has hidden 15 words vital to the story of Sleeping Beauty in this grid. They might run forwards, backwards, up, down or even diagonally! Using the list below, can you find them?

| BRAVE | FOREST | CURSE | KISS |
| :--- | :--- | :--- | :--- |
| THORNS | ENCHANTED | QUEEN | SLEEP |
| PRINCE | SPINDLE | CASTLE | GOOD FAIRY |
| BEAUTY | SPINNING WHEEL | TOWER |  |







