











The number of hours of sleep per day averaged by various species

Hours of sleep per Day	Species
20	Giant sloth
19	Possum, brown bat
18	Giant armadillo
17	Owl monkey, nine-banded armadillo
16	Artic ground squirrel
15	Tree shrew
14	Cat, golden hamster
13	Mouse, rat, grey wolf, ground squirrel
12	Arctic fox, chinchilla, gorilla, raccoon
11	Mountain beaver
10	Jaguar, vervet monkey, hedgehog
9	Rhesus monkey, chimpanzee, baboon
8	Human, rabbit, guinea pig, pig
6	Grey seal
3	Cow, goat, elephant, donkey, sheep
2	Deer, horse



























Sleep Deprivation Score

Sleeping Through the Night

HOW TO DEVELOP GOOD SLEEPING HABITS

- 1. Go to bed and wake up at the same time every day, including weekends. Establish a routine to help set your biological clock. Changing the time you wake up each day can alter sleep cycles and disrupt other physiological systems.
- Never have alcohol or caffeine just before going to bed. Alcohol might help you get to sleep more quickly, but it will interfere with your sleep cycle and cause you to wake up early the next day.
- 3. Regular exercise will help your sleep cycles, but do not do it immediately before going to sleep.
- 4. Use your bed only for sleeping and sex. Do not spend time in your bed reading, eating, or watching television. You want your mind to associate your bed with sleeping.
- 5. Relax. Don't worry about the future. Have a warm bath or listen to soothing music. Learning relaxation techniques, such as imagining you are on the beach, with the sun shining on your back and radiating down your hands, may assist in dealing with chronic stress.
- 6. If you have trouble sleeping, get up and do something else. Don't force yourself to lie there trying to get to sleep. Remember that one sleepless night won't affect your performance very much and worrying about how you will be affected by not sleeping only makes it more difficult to sleep.

Dreams

- Average person has 4-5 dreams per night
- Vast majority occur during REM
- Both internal and external stimuli can modify dreams
- What are dreams? Dream theories
 - Wish-fulfilment (Freud)
 - Activation-Synthesis
 - Problem-solving

Psychoactive drugs

- Drugs that influence subjective experience and behaviour by acting on the nervous system.
- A chemical substance that alters perceptions and mood
- 3 major classes:
 - Stimulants
 - Depressants
 - Hallucinogens

THE BEHAVIORAL EFFECTS OF BLOOD-ALCOHOL LEVELS				
Levels of Alcohol in the Blood	the Blood Behavioral Effects			
0.05%	Feels good; less alert			
0.10%	Slower to react; less cautious			
0.15%	Reaction time much slower			
0.20%	Sensory-motor abilities suppressed			
0.25%	Staggering (motor abilities severely impaired); percep- tion is limited as well			
0.30%	% Semistupor			
0.35%	Level for anesthesia; death is possible			
0.40%	Death is likely (usually as a result of respiratory failure)			

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Psychoactive Drugs					
Dru <mark>g</mark>	Туре	Pleasurable Effects	Adverse Effects		
Alcohol	Depressant	Initial high followed by relaxation and disinhibition	Depression, memory loss, organ damage, impaired reactions		
Heroin	Depressant	Rush of euphoria, relief from pain	Depressed physiology, agonizing withdrawal		
Caffeine	Stimulant	Increased alertness and wakefulness	Anxiety, restlessness, and insomnia in high doses; uncomfortable withdrawal		
Metham- phetamine	Stimulant e	Euphoria, alertness, energy	Irritability, insomnia, hypertension, seizures		
Cocaine	Stimulant	Rush of euphoria, confidence, energy	Cardiovascular stress, suspiciousness, depressive crash		
Nicotine	Stimulant	Arousal and relaxation, sense of well-being	Heart disease, cancer (from tars)		
Marijuana	Mild hallucinogen	Enhanced sensation, pain relief distortion of time, relaxation	Lowered sex hormones, disrupted memory, lung damage from smoke		

Review questions

- Do you think your life could be improved by changing when or how long you sleep each day? In what ways? What negative effects do you think such changes might have on you?
- Can it be argued that the Circadian rhythm is learnt as a result of environmental experience?
- What are the main methods which have been used to study consciousness?
- How can the actions of drugs be understood in terms of physiological brain processes?
- Critically evaluate experimental evidence for, and against, theories of dreaming.

