 THE NERVOUS SYSTEM → collect processes and responds to the environment & coordinates m and glands via neurotransmitt Central Nervous System Peripheral Nervous System Autonomic Nervous System (R FIGHT OR FLIGHT Survival mechanism 	e nuscles ters. → n (F&F) /	No de de se de la contra de la contra la contra la contra de la contra	have sp Front Parie Occi Temp Broce Wern Comp Side Biolog	 SATION OF FUNCTION → specific areas of the brain becific functions Eg, Broca, Wernicke, Occipital lobe al Lobe → motor cortex / movement. tal Lobe → Somatosensory / senses. pital Lobe → Visual. boral Lobe → Auditory. a's → LEFT frontal lobe / speech production. icke's → LEFT temporal lobe /language prehension. gically reductionist / gender differences a & Wernickes aphasia / fMRI scans). 	 CIRCADIAN RHYTHMS → 24h cycle (sleep/wake) Primarily controlled by the SCN but needs light to reset each day. Siffre case study → Lived in a cave for 61 days* and found that his free-running body clock increased to 25 hours. When repeated at 60, his body clock increased to 36 hours. Shift work and jet lag. Aschoff and Wever → 4 weeks in a bunker. All ppts increased to 25h. Folkard → reduced the time of the day, nobody 	
 ANS & endocrine system we together. Dilated pupils / digestion as bladder inhibited / increase heartrate / increased sweapale skin / dry mouth. 	ind sed at / Sync unus	STICITY \rightarrow The brain the neuronal connection sical changes through the pruning \rightarrow 'ranged connections.	in develops ctions and oughout	 FUNCTIONAL RECOVERY → A form of plasticity where the brain compensates for damaged areas. Neuronal unmasking → dormant synapses 'unmask' and compensate. Stem cells → Implanted or transplanted from healthy areas. 	ere	 could adjust. INFRADIAN RHYTHMS → A cycle longer than 24h (menstruation) FSH / Oestrogen / Progesterone all linked to the menstruation cycle. ③ McClintock → pheromone study found that women who smelled the pheromones of other 	
 THE ENDOCRINE SYSTEM → sec hormones through blood vess glands. Hypothalamus → controls the pituitary gland. Pituitary gland → controls a glands with its hormones. Pineal gland → melatonin / 	sels via the full other / sleep	GUIRE → MRI scans of 16 right nded taxi drivers with 1.5y perience and compared to non-taxi drivers. Found reased grey matter in the taxi vers in the hippocampi.		 Spontaneous recovery → Natural recovery which slows down./ Axonal sprouting → New nerve endings grow and connect to damaged nerves. Spontaneous recovery is short-term / negative plasticity Musicians / animal studies with complex environments / cognitive reserve. 		women altered the length of their cycle	
 Ovaries → oestrogen / repr Testes → testosterone / reproduction 	reproduction Adrenal medulla \rightarrow adrenaline Adrenal cortex \rightarrow cortisol		nd right eye p pts who had you see – Lef	th hemisphere is responsible for a specific process information on the OPPOSITE hemisphere. Their corpus callosum removed. Themisphere can describe, right cant. The can describe and identify an item, right can NOT	k	Menstruation Lining of uterus builds up Day Day Day 4 Day 14 Day ADIAN RHYTHMS → A cycle which repeated within	
 NEURONS → chemical and electrical signals. Sensory → carry information towards the CAN. Relay → Found within the CNS, connect sensory and motor. Motor → Carry information away from the CNS to 		© Controlled experiment / chickens can perform 2 tasks at once.			5 star repe © De	 24h (5 stages of sleep) 5 stages of sleep which last about 90 minutes and repeat during 'sleep' © Dement – Found ppts who were woken during REM 	
 muscles/glands. Receptors → collect information from senses / Effectors → receive information (glands/muscles) They can only travel in one direction → binding / receptors / vesicles. 		 ENDOGENOUS PACEMAKERS → internal biological clocks Suprachiasmatic nucleus → responds to light → melanopsin releases melatonin which causes drowsiness/sleep. © Decoursey – chipmunks had their SCN destroyed and returned tot heir habitat. All died. © Ralph – bred mutant hamsters and adapted their cycles to 20 			RE ☺ Kli p€	corded dreaming whereas PPTs woken during N- EM struggled to return to sleep. ietman – We live our entire sleep/wake cycle in eriods of 90 minutes. And move from being alert to ed.	
Direction of impu Dendrites Nucleus Cell body Axon Dendrite Axon	ulse on terminals	Entrainme sleep/wa	hours. EXOGENOUS ZEITGEBERS \rightarrow external environmental cues. Entrainment \rightarrow getting babies into a routine to control their			Stages of Healthy Sleep	
SYNAPTIC TRANSMISSION → the movement of information from one neuron to the next. Presynaptic membrane holds vesicles full of NT / oloctrical current oncourages			BRAIN SCANS fMRI → measures a change in energy released by haemoglobin in the brain. Low temporal resolution / High spatial resolution / non-invasive but expensive. EEG → Measures electrical activity on the scalp via electrodes. High temporal resolution / Low spatial resolution / can't resord doop brain (non-invasive and chagn				

Presynaptic membrane holds vesicles full of NT / electrical current encourages secretion across the synaptic cleft / binding on to the receptors of the post synaptic membrane.

Summation \rightarrow the higher net value of excitatory / inhibitory neurons will fire.

record deep brain / non invasive and cheap. **ERP** \rightarrow Measures brain activity via electrodes on the scalp when the ppt performs a task. High temporal resolution / low spatial resolution / can't record deep brain / non invasive and cheap.

Post Mortem → structural examination after death. Detail examination on humans rather than animals / invasive / time between death and post-mortem / small samples.