

Lesson Plan

NEUROHEADWAY

Neuroscience Into Education

LESSON PLAN/OUTLINE

Name:			Age group: KS 2		Time: 1*20 and 1*40 minutes		
Field: Neuroscience							
Title: Neuropharmacology							
Aims: The aim of the module is to provide pupils with the definition of neuropharmacology and what kind of chemical interventions are applied in the central nervous systems of healthy and diseased individuals.							
DETAILED LESSON PLAN							
Steps/Activities	Emphasized skills	Possibilities for differentiation	Form		Required tools	Time (minutes)	Notice
			Method	Form			
First 20 minutes							
1. Introduction	communication		Teacher speech			2	Articulating the aims of the lesson for the pupils
2. Neuroharmacology	cognitive skills		slide 2-4			6	Aim is to be confident about what neuropharmacology means.
2. Game – Neuron puzzle in groups	social competence, concentration,		Game	Discussion what is a neuron	Picture about a neuron with	12	Aim: finishing a puzzle about a neuron in a brain in groups of 4 pupils per

	communication, visual skills				lines indicating where to cut		group and answer questions about neurons
Second 40 minutes							
4. Animation	observation					8	
5. Game - activity	social skills, communication, writing, calculating, cooperation, etc.		Acting and guessing			32	Aim is to understand the effects of different substances.
6. What have we learned today							1. Pupils understand definitions correctly 2. Pupils have to be able to mention pharmacological interventions in healthy individuals 3. Pupils have to be able to mention diseases or sicknesses with pharmacological treatments

Power point Example

NEUROHEADWAY

Neuroscience Into Education

Brain

- Brain consists of neurons
 - A lot of small units that send messages to each other
 - They are like children in the school
 - School = Brain
 - Children = Neurons
- Neurons can be **stimulated or suppressed**

Caffeine

- Caffeine can be found in: tea, coffee
- Caffeine **stimulates** our brain
- It is used for healthy brains
- It is used by us, not by doctors

Theobromine

- Theobromine is found in hot chocolate and chocolates
- Theobromine **stimulates** our brain
- It is used for healthy brains
- It is used by us, not by doctors

Nicotine

- Nicotine is found in cigarettes
- Nicotine **stimulates** our brain
- It is used by otherwise healthy people
- It is used by us, not by doctors
- Nicotine has also a lot of negative effects on our body: **diseases and addiction**