

Name _____

Slot_____

GRADE 10 PE: ADDICTION AND THE TEEN BRAIN

VOCABULARY

Neurotransmitter: brain chemicals that communicate information throughout our brain and body

Dopamine: a brain neurotransmitter that helps control the brain's reward and pleasure centers

Serotonin: a brain neurotransmitter that contributes to feelings of well-being and happiness

PET scan: 3D image of the brain

Dominant: higher ranking, most powerful

Subordinant: lower ranking, not in a position of power

Website #1: Timing and Circumstances Influence Addiction

1. Describe what is happening in the teenage brain at ages 12, 16, & 20.

2. Describe what happens to the pre-frontal cortex during adolescence and explain how this affects teen behavior.

3. Explain how the "wiring" in the teenage brain increases teen risk for drug use.

4. Describe how drinking at a young age affects the risk factor for becoming an alcoholic.

5. Monkey Study: Review all 8 slides and explain the key findings of the monkey study and how it relates to teens.

6. Environmental Risk Factors for Addiction: go to the link and read the information. Name and describe the 4 environmental risk factors.

Website #2: Mouse Party: Choose any 2 drugs to research at the mouse party.

Name of Drug	Effects on Brain Chemistry	Effects on Mental Function and/or the body

Website #3: How Drugs Kill

1. What is a polydrug cocktail?

2. Briefly describe how the drugs listed below can kill.

Heroin / Opiates	
Alcohol	
Nicotine	
Cocaine	
Amphetamine, Meth, Ecstasy	