

Name:

Date:

Neurological Effects of Drugs

Match the drugs to their neurological effects.

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|-------------|--|
| Cocaine • | • Slows neural activity and impairs coordination |
| Marijuana • | • Boosts dopamine and affects reward system |
| Alcohol • | • Overstimulates reward pathways, causing euphoria |
| Nicotine • | • Impairs memory and learning |
| Opioids • | • Suppresses pain signals and neurotransmitter release |

Decide if each statement is true (T) or false (F).

1. ___ Long-term use of drugs can shrink the hippocampus.
2. ___ Nicotine decreases dopamine production in the brain.
3. ___ Alcohol slows neural activity, affecting memory and judgment.
4. ___ Cocaine causes long-term damage to brain circuits involved in stress.

Read the scenario and answer the questions below.

Scenario: Sam started using opioids after an injury. Over time, Sam felt unable to stop using them, even though the pain had subsided. Sam also noticed feeling anxious and sad without the medication.

1. What part of Sam's brain might be affected by opioid use?
2. How do opioids alter the brain's natural production of neurotransmitters?