

#### **Cocaine Stats & Facts**

- ullet Pure cocaine was first used in the 1880s as a local anesthetic during surgery because it constricts blood vessels and limits bleeding
- Cocaine kills over 2,000 people per year!
- o Cocaine-related deaths are often a result of Cardiac arrest or seizures
- Repeated snorting of cocaine can damage the membranes in the nose
- o On the street, cocaine is diluted or "cut" with other substances to increase the quantity and raise the **Profits** of dealers
- o Cocaine is very addictive! In studies, animals addicted to cocaine chose the drug over food—even when it meant they would starve
  - Many people report being hooked on cocaine after only one use

**Injection** drug use often involves unsafe needle-sharing practices, which can lead to the exchange of blood-based viruses, such as HIV

**Heroin Stats & Facts** 

Cold flashes with goose bumps ("cold turkey") are a common withdrawal symptoms of heroin

dangers were understood heroin was an ingredient in many home remedies Regular abusers

Slang Names

for Heroin:

Smack

Crank

**Jive** 

Shag

Dope

**Cocaine Corner Answers:** 

Skag

Smack Junk

Horse

may experience withdrawal as soon as a few hours after their last use—withdrawal symptoms are a sign of addiction

**Approximately** 3.7 millions Americans, aged 12 and older, have used heroin at least once

### **Cocaine Background**

- Cocaine is made from leaves of the coca plant
- It can be used in powder or crystal (crack) form and snorted, injected, or smoked
- Cocaine is a central nervous system stimulant that causes sudden increases in heart rate, blood pressure, and breathing
- Cocaine disrupts neurotransmission in the brain, especially the neurotransmitter dopamine
- Cocaine is very addictive!

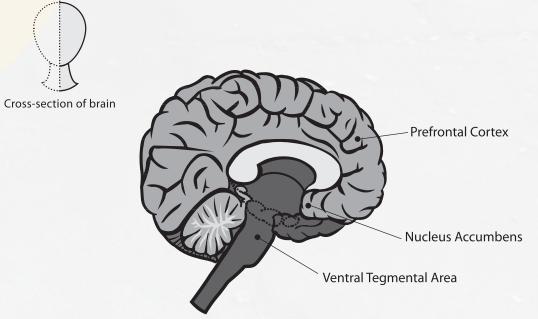
# Slang names for Cocaine Coke Blow Snow Rock Nose Candy

# **DO** Try This At Home

### Learn about Drugs in the Brain

Cocaine causes changes in the reward system of the brain. This part of the brain is responsible for feelings of pleasure, and is activated when a person is feeling good. For example, when you eat an ice cream sundae or see your best friend, neurotransmitters in your brain's reward system are released and you feel happy. Cocaine activates the brain's reward system much more than everyday events do.

Heroin also affects parts of the brain that release neurotransmitters and activate the brain's reward system. Scientists have identified the specific areas of the brain that work in the reward system, but understanding how drugs change the chemicals in the brain can tell us a lot about drug addiction. For instance, a person who uses cocaine or heroin is "rewarded" by feelings of pleasure, and therefore might want to repeat the act as a way of feeling good again. However, the brain changes as a result of drug use, and soon a person needs more of the drug just to keep from feeling bad. These changes in the brain are addiction.



To learn more about the brain and the reward system, check out this Web site: www.nida.nih.gov/NIDA\_Notes/NNVol11N4/Brain.html

## **Cocaine and the Brain**

**PET Scans of Brains** 

Red = parts that working hardest Blue = parts that are not working hard

**Cocaine User Healthy Brain** 

### **Heroin Background**

- Heroin is a highly addictive illegal drug that is extracted from the seedpod of the poppy plant
- Heroin acts on the limbic system, which is responsible for feelings of pleasure; on the brain stem, an area that controls automatic body functions such as breathing; and on the cerebral cortex, where thought processes take place
- Heroin can block pain messages transmitted by the central nervous system from the body, which could cause a person not to react to dangerous situations because the nervous system is not receiving notice of pain
- At low doses, heroin triggers a dreamlike state with such side effects as constricted pupils, reduced appetite, constipation, low body temperature, itching, sweating, and stupor
- At higher doses, side effects of heroin include increased breathing and heart rate and a reduction in blood pressure. Very high doses can cause death

1. Dopamine; 2. Addiction; 3. Crack; 4. Powder; 5. Amnesia; 6. Coca; 7. HIV; 8. Synapse; 9. Snorting

Powder