Nothing to Rave About
(From: GVL)

Directions:
Go to: http://webadventures.rice.edu/stu/Games/Reconstructors/

You will be completing all 3 episodes but it is important to note that you will need 20-30 minutes per episode. You can do them each separately but if you exit in the middle of one you will have to start that episode all over again.

Scenario:
The city of Neuropolis has seen a dramatic increase of young people being admitted to the emergency room. Your only lead is a night club called “Buzzco”. Follow the online directions to advance through the game and solve the mystery. Be sure to answer the questions below.

Episode 1:

1. What year is the mission set in?
   __________________________________________________________
   __________________________________________________________

2. Who is the leader of the Reconstructors?
   __________________________________________________________
   __________________________________________________________

3. How long did it take you to get through the maze to Club Buzzco?
   __________________________________________________________
   __________________________________________________________

4. What is the mystery that the Reconstructors need to solve?
   __________________________________________________________
   __________________________________________________________

5. Which three vitals signs are elevated in Rune and in the other teens that have become ill?
   __________________________________________________________
   __________________________________________________________
   __________________________________________________________

6. Who is the Chief Science Officer?
   __________________________________________________________
   __________________________________________________________

7. Which drugs increased heart rate in the Daphnia experiment?
   __________________________________________________________
   __________________________________________________________

8. According to Beta, what type of drug can increase heart rate and make you feel full of energy?
9. List the 6 stimulants described in the “Stim Trek” video and where they originated in the world.

__________________________________________________________

10. List the 5 areas of the brain that are affected by stimulants and what functions they perform.

__________________________________________________________

11. What are hallucinogens?

__________________________________________________________

12. List four examples of hallucinogens?

__________________________________________________________

13. What happens to the lab that Beta and Eureka are in at the end of the story?

__________________________________________________________

14. Conclusions: Teens in Neuropolis are becoming ill from a drug that can act like both a ___________________ and a ___________________.

Episode 2:

1. Beta uses a mass spectrometer to analyze the pills and the contents of the vial. What chemical is present in the vial of liquid?

__________________________________________________________

2. What is the chemical formula for GHB?

__________________________________________________________

3. What are 2 other “nicknames” for GHB?

__________________________________________________________

4. What happens to a chemical in the mass spec when it passes through the ion source?

__________________________________________________________

Adapted from The Reconstructors®, Source: http://reconstructors.rice.edu/recon2/index.html
5. What does the analyzer do?

_________________________

6. What does the detector do?

_________________________

7. Analysis of the blue pills reveals that two chemicals are present. The first chemical found is caffeine. What is the name of the drug in the blue pills that can act like a stimulant and hallucinogen?

_________________________

8. A visit to the DSI uncovers past cases dealing with various club drugs. Summarize each of the following cases:
   a. Case #56
      i. The Crime –
      ii. The Evidence –
      iii. Report (List the 3 drugs discussed and what was found) –
      iv. Status –
   b. Case # 81
      i. The Crime –
      ii. The Evidence –
      iii. Report (Describe what a methamphetamine is and what the effects of long term use can be) –
      iv. Status –
   c. Case #11
      i. The Crime –
      ii. The Evidence –
      iii. Report (Describe the events of the re-enactment) –
      iv. Status (What happened to Chante Mallard in the real case discussed?) –

9. Terry and Mig are talking about the effects of Ecstasy. Can you tell from the way an Ecstasy pill looks how dangerous it is or what is really in it?

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10. Conclusions: What drug does Beta believe is responsible for the mysterious teen illnesses?

_________________________

11. How does episode 2 end?

_________________________
Episode 3

1. When Ecstasy blocks transporters, what happens to the amount of serotonin in the synapse?

2. List five functions that serotonin regulates.

3. What does repeated or regular Ecstasy use do to the level of serotonin in certain areas of a rat’s brain?

4. What is one problem with studying Ecstasy users?

5. Is the activity of the hippocampus of Ecstasy users the same as or different from that of non-users?

6. How do regular Ecstasy users do on working, visual, and verbal memory tests when compared with non-users?

7. Do depression and anxiety regular Ecstasy users have more or less depression and anxiety when compared with non-users?

8. Conclusions: Why is Ecstasy illegal?

Adapted from The Reconstructors®, Source: [http://reconstructors.rice.edu/recon2/index.html](http://reconstructors.rice.edu/recon2/index.html)