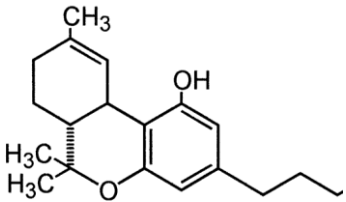
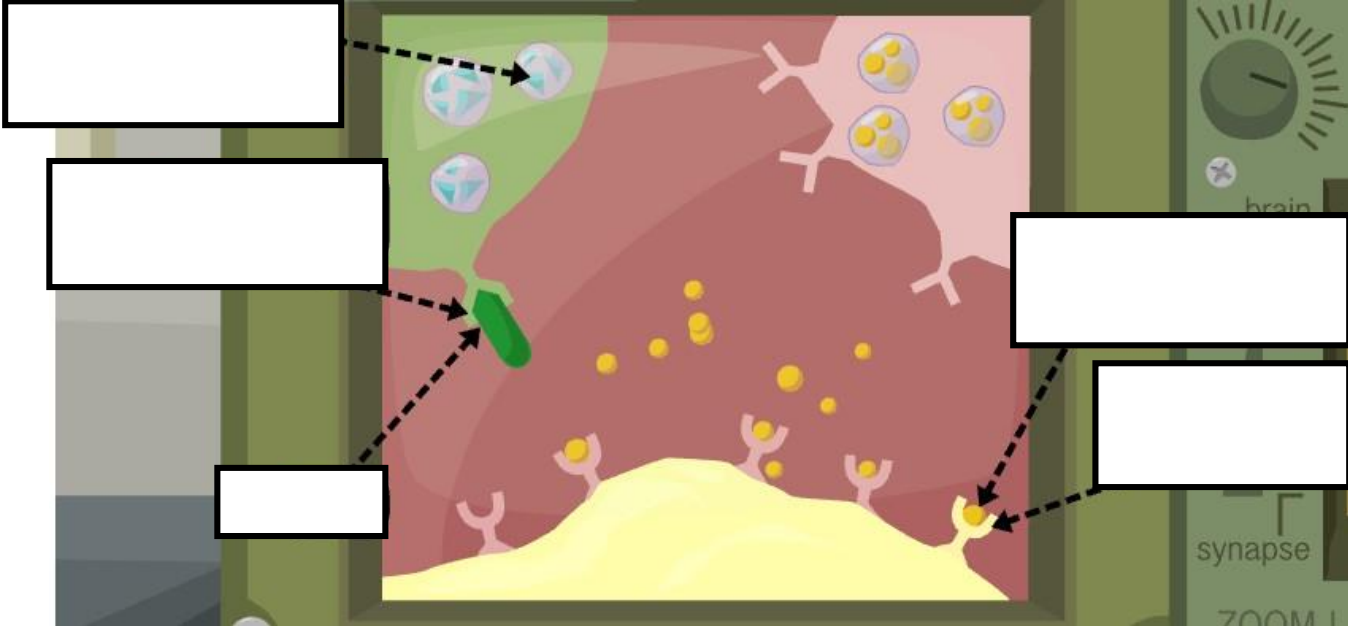


# Mouse Party

## Summary Sheet

1. Fill in the chart and label the diagrams below based upon the information presented in the Mouse Party animation.

<b>Drug</b> <i>(Chemical Structure)</i>	<b>Labelled Diagram of the Drug Action</b>
<p><b>Marijuana (THC)</b></p>  <p><b>Neurotransmitter affected is:</b></p> <hr/> <p><i>(Slide 3 of 4)</i></p>	 <p>Diagram illustrating the action of a drug (THC) on a synapse. The diagram shows a presynaptic terminal (green) and a postsynaptic terminal (red). The presynaptic terminal contains vesicles (blue) and a green mitochondrion. The postsynaptic terminal contains receptors (pink) and vesicles (yellow). A green arrow points from a vesicle in the presynaptic terminal towards a receptor in the postsynaptic terminal. A dial gauge on the right is labeled 'brain' and 'synapse'.</p>

2. Briefly describe how marijuana affects the brain.

---

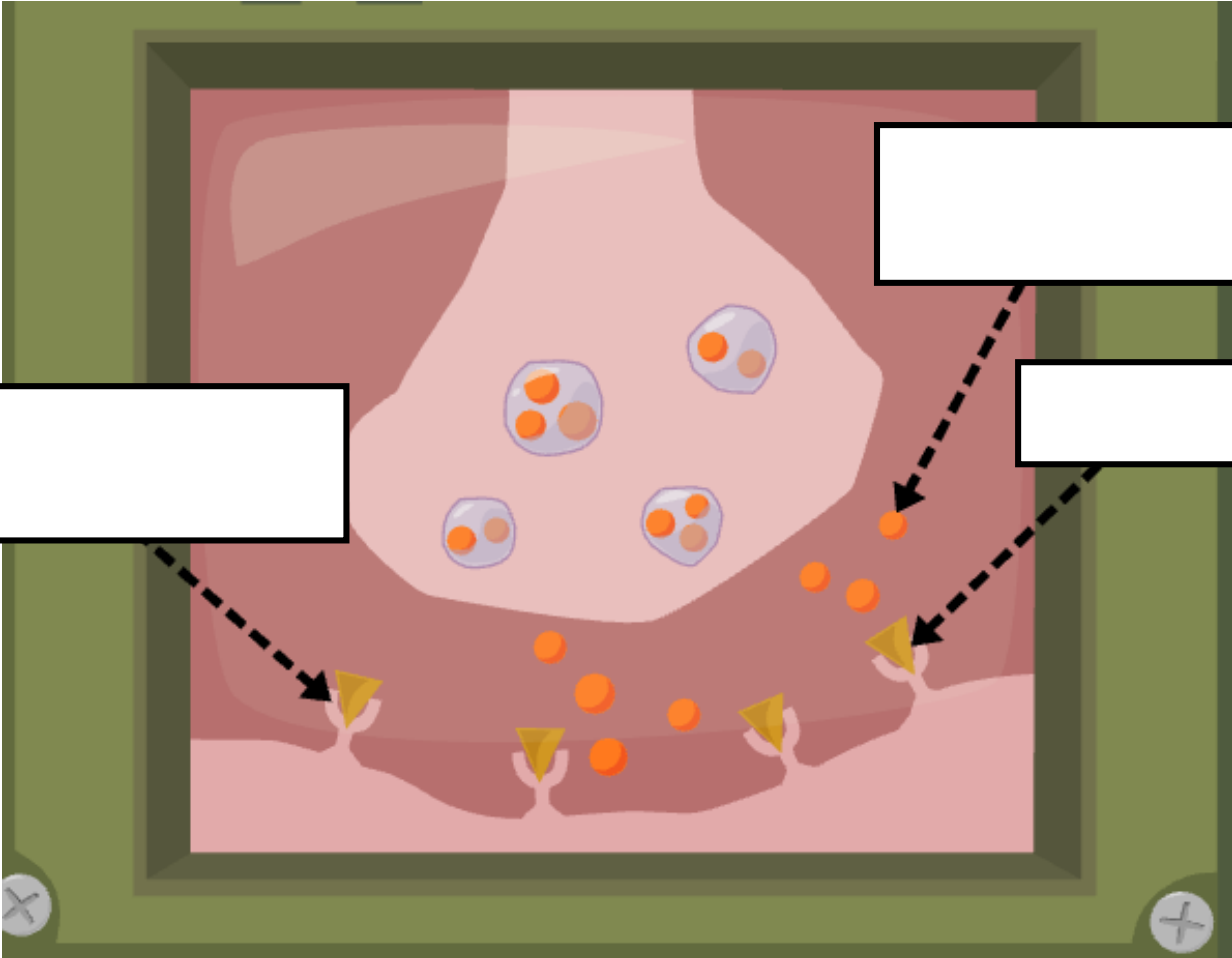


---



---

3.

<b>Drug</b> <i>(Chemical Structure)</i>	<b>Labelled Diagram of the Drug Action</b>
<p data-bbox="380 201 506 233"><b>Alcohol</b></p> $\begin{array}{c} \text{H} \quad \text{H} \\   \quad   \\ \text{H}-\text{C}-\text{C}-\text{OH} \\   \quad   \\ \text{H} \quad \text{H} \end{array}$ <p data-bbox="302 695 585 773"><b>Neurotransmitter</b> <b>affected is:</b></p>	 <p data-bbox="342 1049 543 1089"><i>(Slide 4 of 5)</i></p>

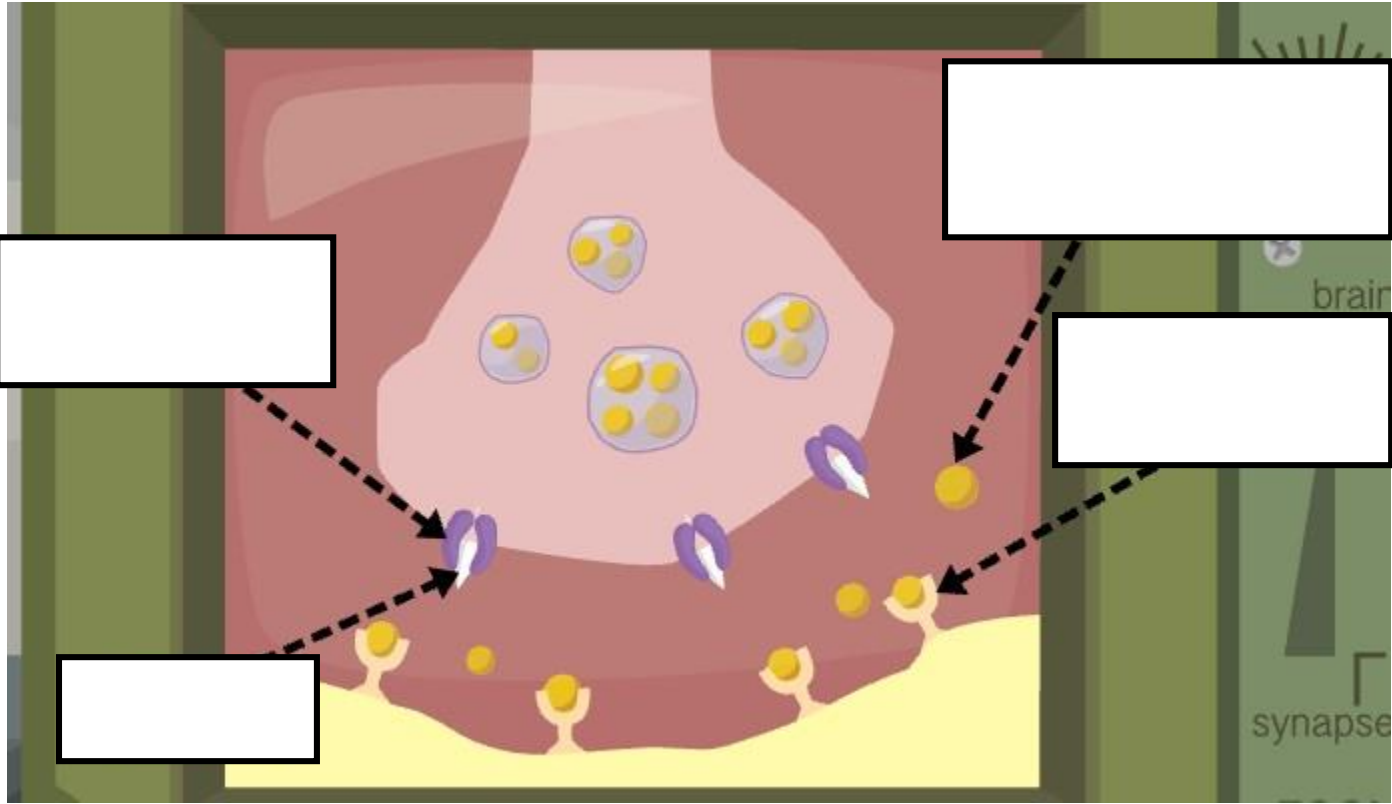
4. Briefly describe how alcohol affects the brain.

---

---

---

5.

<b>Drug</b> <i>(Chemical Structure)</i>	<b>Labelled Diagram of the Drug Action</b>
<p data-bbox="352 186 485 224"><b>Cocaine</b></p> <chem data-bbox="239 272 596 451">CCN1[C@H]2CC[C@@H]1[C@@H](C(=O)OC)c3ccccc3OC2=O</chem> <p data-bbox="275 630 562 706"><b>Neurotransmitter affected is:</b></p> <hr data-bbox="222 800 615 803"/> <p data-bbox="317 979 520 1019"><i>(Slide 2 of 3)</i></p>	 <p>The diagram illustrates a neuron with several organelles and a synapse. Inside the neuron, there are purple vesicles containing yellow neurotransmitters. On the cell membrane, there are purple transporters and yellow receptors. Cocaine is shown blocking the purple transporters, preventing the reuptake of neurotransmitters. Dashed arrows indicate the movement of neurotransmitters from the synapse back into the neuron. Labels 'brain' and 'synapse' are visible on the right side of the diagram. Three white boxes with black borders are placed over the diagram: one on the left side of the neuron, one on the right side, and one at the bottom left. Dashed arrows point from these boxes to the transporters and receptors.</p>

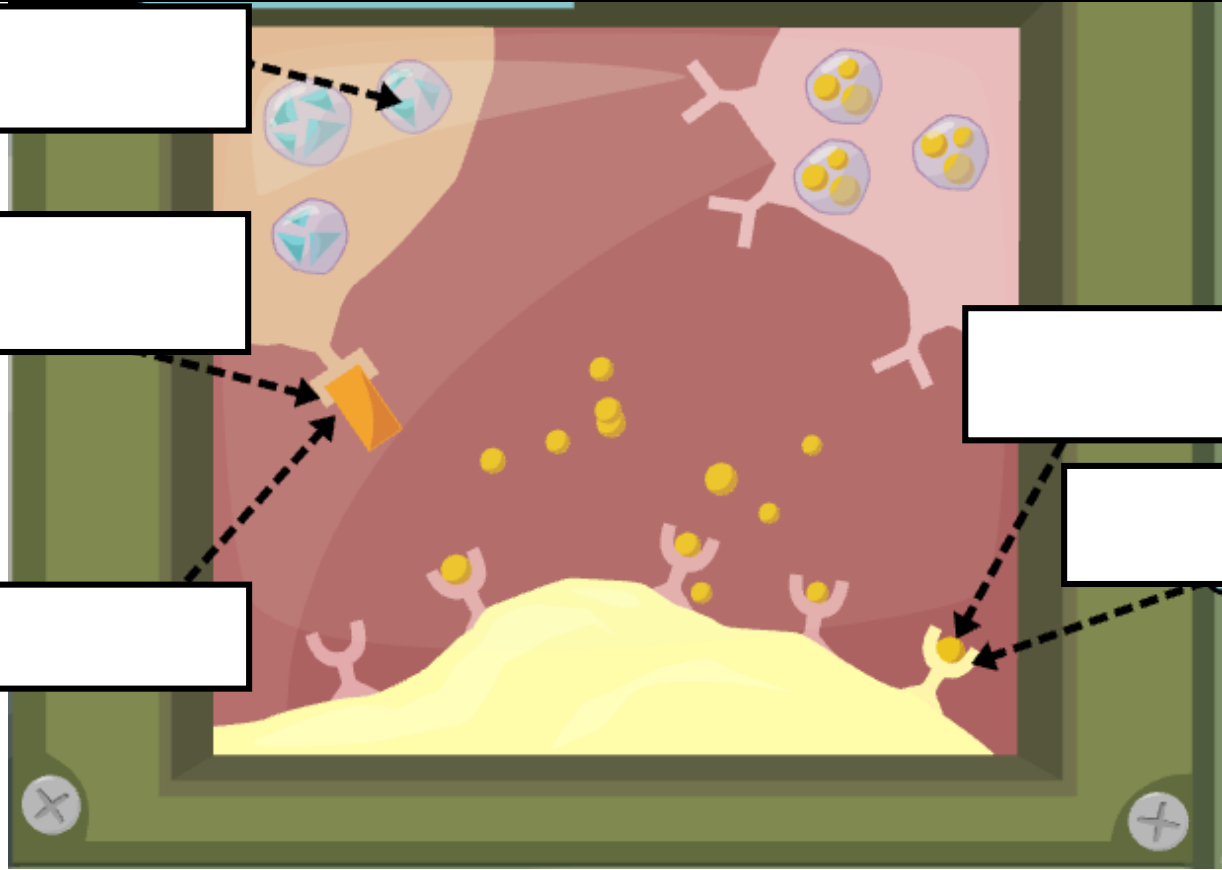
6. Briefly describe how cocaine affects the brain.

---

---

---

7.

<b>Drug</b> <i>(Chemical Structure)</i>	<b>Labelled Diagram of the Drug Action</b>
<p data-bbox="338 201 453 237"><b>Heroin</b></p> <chem data-bbox="201 285 590 542">CC(=O)Oc1ccc2c3c1O[C@H]4[C@@H](OC(=O)C)C[C@@H](C5=CC=CC=C5N(C)CC5)[C@H]2O3</chem> <p data-bbox="254 724 537 802"><b>Neurotransmitter affected is:</b></p> <hr data-bbox="201 894 590 898"/> <p data-bbox="296 992 495 1027"><i>(Slide 3 of 4)</i></p>	 <p data-bbox="695 748 957 857">[Label Box]</p> <p data-bbox="621 383 957 521">[Label Box]</p> <p data-bbox="695 748 957 857">[Label Box]</p> <p data-bbox="1661 480 2032 610">[Label Box]</p> <p data-bbox="1766 634 2032 748">[Label Box]</p>

8. Briefly describe how heroin affects the brain.

---

---

---

9. Define **HOMEOSTASIS**.

---

10. The tiny gap between 2 nerve cells is called a \_\_\_\_\_.

11. What is the nervous system composed of?

---

---

12. Label the following diagram.

A. \_\_\_\_\_

B. \_\_\_\_\_

C. \_\_\_\_\_

D. \_\_\_\_\_

