

# SBI4U HOMEOSTASIS Unit Checklist

Name: \_\_\_\_\_



Mastery Checks may be attempted more than once and are not considered complete until  $\geq 70\%$  is achieved.

Notes and activities will be checked for completion & corrections..

Topic	Objective(s)	Key Concepts	Approx. # classes	Mastery Check Inc. # of attempts
<b>Nervous System</b>				
1	<b>Nervous System Divisions:</b> Explain the anatomy and function of the nervous system including the central & peripheral systems, and nerve function	<ul style="list-style-type: none"> <li>- Importance of nervous system: branches, functions</li> <li>- <b>Brain:</b> anatomy, compartmentalization, motor vs sensory areas</li> </ul>	2	□□□□
2	<b>Nerves &amp; Nerve Signals:</b> Describe an action potential and how it works Explain the effects of various drugs on the nervous system	<ul style="list-style-type: none"> <li>- <b>Neurons:</b> structure, function, action potentials, neurotransmitters, synapses</li> <li>- Drug effects on system: painkillers, sedatives, hallucinogens, narcotics, over-the-counter medications</li> </ul>	4	□□□□
<b>Homeostasis</b>				
3	<b>Feedback Loops:</b> Describe the importance of maintaining homeostasis Explain the difference between positive and negative feedback loops	<ul style="list-style-type: none"> <li>- What can be regulated &amp; Why</li> <li>- <b>Feedback loops:</b> Advantages of +/-</li> </ul>	1.5	□□□□
4	<b>Endocrine System:</b> Explain how hormones help regulate various systems including blood sugar Describe the different types of hormones and how they work	<ul style="list-style-type: none"> <li>- <b>Main Endocrine Glands</b></li> <li>- <b>Hormone Types:</b> steroid vs. protein, mechanisms</li> <li>- <b>Blood Sugar:</b> pancreas, insulin, glucagon, diabetes</li> </ul>	3	□□□□
5	<b>Excretory System:</b> Explain the anatomy and function of the excretory system Describe how the kidney maintains blood pressure & water levels	<ul style="list-style-type: none"> <li>- <b>Kidney anatomy &amp; function:</b> Bowman's capsule, glomerulus, nephron, filtration, reabsorption, secretion</li> <li>- <b>Hormones:</b> ADH, aldosterone, blood pressure</li> </ul>	3	□□□□

# Homeostasis Terms to Know

- Absolute Refractory Period
- ACTH
- Action Potential
- Adrenal Cortex
- Adrenal Medulla
- Afferent
- Aldosterone
- Ammonia
- Anterior Pituitary
- Antidiuretic Hormone
- Autoreceptor
- Axon
- Axon Terminal
- Bladder
- Bowman's Capsule
- Calcitonin
- Calcium Channel
- cAMP
- Cerebellum
- Collecting Ducts
- Control Center
- Cortisol
- Dendrite
- Depolarizing Phase
- Distal Tubule
- Effector
- Efferent
- Endocrine
- Endocrine Gland
- Epinephrine
- Excitatory NT
- Excretion
- Filtrate
- Filtration
- Frontal Lobe
- Glomerulus
- Glucagon
- Glucocorticoids
- Glycogen
- Grey Matter
- Growth Hormone
- Homeostasis
- Hyperpolarization
- Hypothalamus
- Inhibitory NT
- Insulin
- Interstitial Cells
- Interstitial Fluid
- Involuntary
- Islets of Langerhans
- Juxtaglomerular apparatus
- Kidney
- Loop of Henle
- Medulla
- Meninges
- Meningitis
- Mineralcorticoids
- Motor Cortex
- Myelin
- Negative Feedback
- Nephron
- Nervous
- Neurilemma
- Neurotransmitter
- Node of Ranvier
- Non-Target Hormone
- Norepinephrine
- NT Re-Uptake Pump
- Occipital Lobe
- Osmoreceptors
- Osmotic
- Osmotic Gradient
- Oxytocin
- Parathyroid
- Parietal Lobe
- Positive Feedback
- Posterior Pituitary
- Postsynaptic Neuron
- Potassium Pump
- Presynaptic Neuron
- Prolactin
- Protein Hormone
- Proximal Tubule
- Reabsorption
- Receptor
- Regulator
- Relative Refractory Period
- Repolarizing Phase
- Resting Membrane Potential
- Saltatory Conduction
- Schwann Cell
- Secondary Messenger
- Secretion
- Sensory Cortex
- Sodium Pump
- Spatial Summation
- Spinal Ganglion
- Steroid Hormone
- Stimulus
- Summation
- Synapse
- Synaptic Cleft
- Synaptic Vesicle
- Target Hormone
- Temporal Lobe
- Temporal Summation
- Threshold
- Thyroid
- Thyroxine (T4)
- Triiodothyronine (T3)
- Type I Diabetes
- Type II Diabetes
- Urea
- Ureter
- Urethra
- Uric Acid
- White Matter
- $\alpha$ -cells
- $\beta$ -cells

DECEMBER 2022						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

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JANUARY 2023						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	1	2	3	4

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