1. Cerebral White Matter
2. fibers
3. association- w/in hemispheres
4. commissural- between hemispheres
5. Basal Nuclei
6. corpus striatum $=$ caudate $\&$ lentiform nuclei
7. relay motor activity from cortex
8. Diencephalon
9. central core of forebrain
10. Thalamus- "inner room"
11. nuclei that connect to cortex
12. sensation, motor activities, cortical arousal, learning \& memory
13. "gateway to cortex"
14. Hypothalamus
15. nuclei
16. pituitary gland
17. functions: primarily homeostasis
18. autonomic control center- heart rate, breathing, gut motility
19. emotional \& behavioral center
20. body temperature regulation
21. food intake regulation
22. water balance
23. sleep wake cycles
24. endocrine center
25. Epithalamus
26. pineal gland- environmental integration
27. choroid plexus- CSF production
28. Brain Stem
29. structure \& functions
30. deep gray matter surrounded by whiter matter fiber tracts
31. programmed autonomic behaviors
32. gateway
33. nuclei associated with 12 cranial nerves
34. segments
35. mid-brain
36. startle reflexes
37. most superior part of CNS with motor neurons
38. pons ("bridge")
39. conduction tracts
40. motor cortex to cerebellum
41. pneumotaxic center
42. medulla oblongata
43. decussation- crossover
44. equilibrium
45. visceral motor nuclei
46. cardiovascular center
47. respiratory centers
48. other centers
49. vomiting
50. hiccuping
51. swallowing
52. coughing
53. sneezing
54. Cerebellum
55. coordinated movements
56. motor cortex
57. brain stem nuclei
58. sensory nuclei
59. somatotopy
60. Functional Systems
61. long distance networks
62. hard to localize
63. limbic
64. emotional or affective (feelings) brain
65. links to cortex or cognitive brain
66. reticular formation
67. widespread axonal connections
68. governs arousal of brain
69. reticular activating system
70. alertness \& filtering
71. Protection
72. skull
73. meninges
74. dura mater
75. arachnoid membrane
76. pia mater
77. cerebrospinal fluid (CSF)
78. secreted by choroid plexus in ventricles
79. reabsorbed by arachnoid villus
80. blood brain barrier
