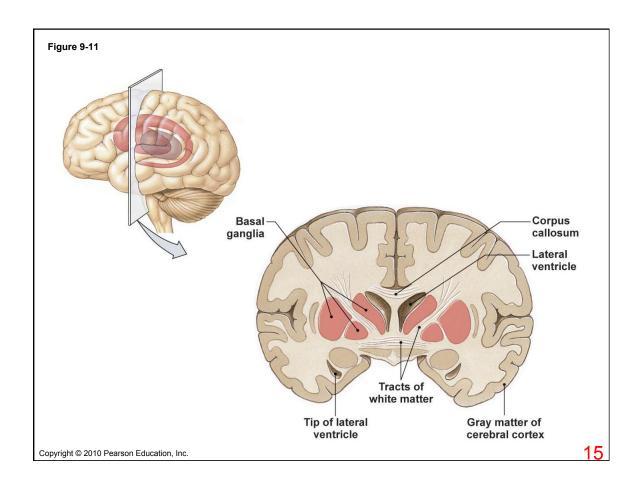
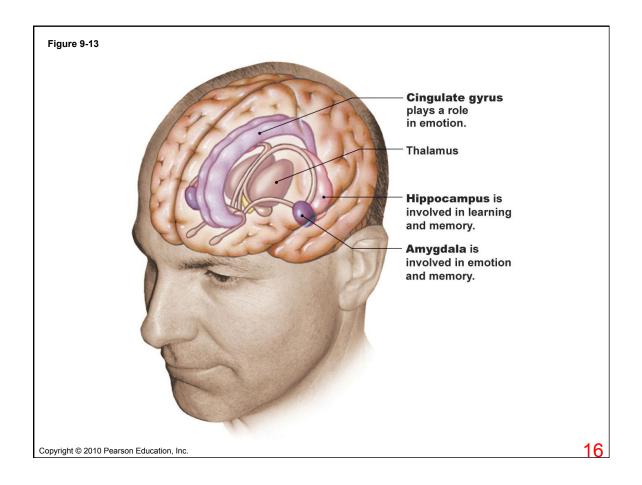
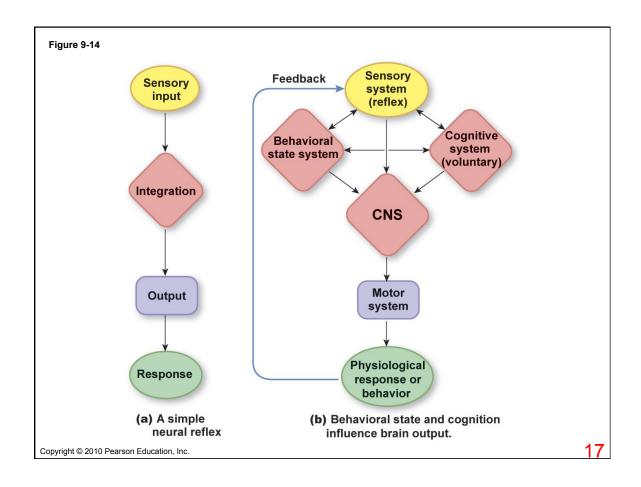
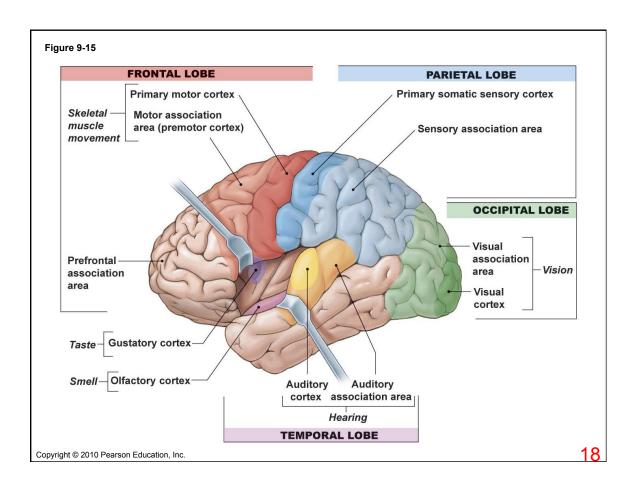


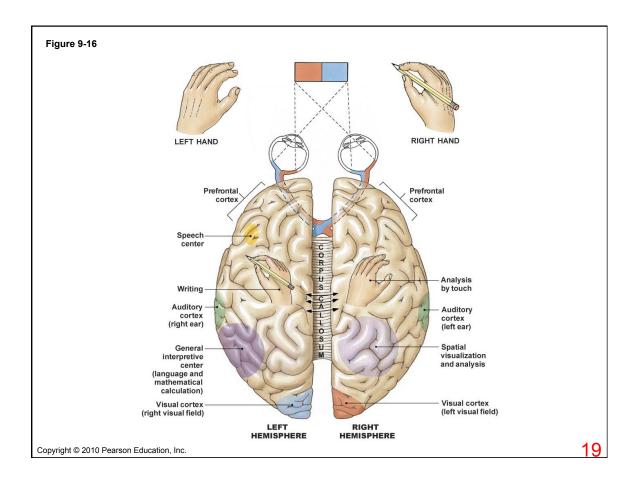
Table 9-2 **TABLE 9-2 Functions of the Hypothalamus** 1. Activates sympathetic nervous system Controls catecholamine release from adrenal medulla (as in fight-or-flight reaction) Helps maintain blood glucose concentrations through effects on endocrine pancreas 2. Maintains body temperatureStimulates shivering and sweating 4. Controls reproductive functions • Directs secretion of oxytocin (for uterine contractions and milk release) • Directs trophic hormone control of anterior pituitary hormones FSH and LH [20 p. XXX] 5. Controls food intake Stimulates satiety centerStimulates feeding center 6. Interacts with limbic system to influence behavior and emotions 7. Influences cardiovascular control center in medulla oblongata 8. Secretes trophic hormones that control release of hormones from anterior pituitary gland Copyright © 2010 Pearson Education, Inc.

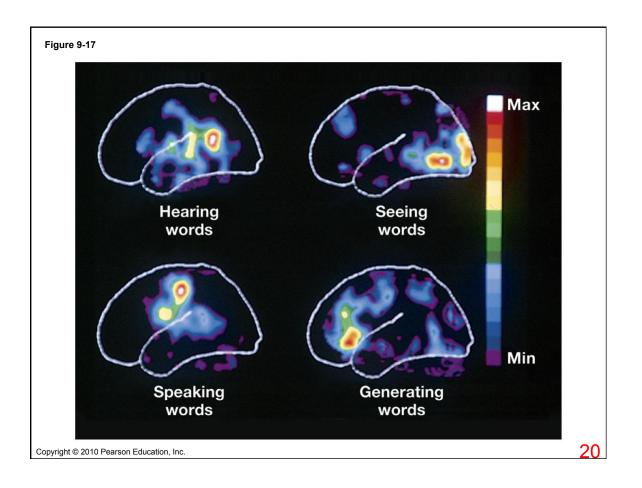


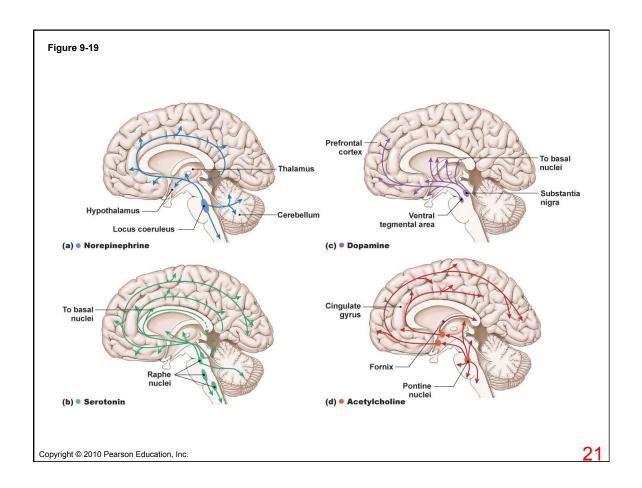


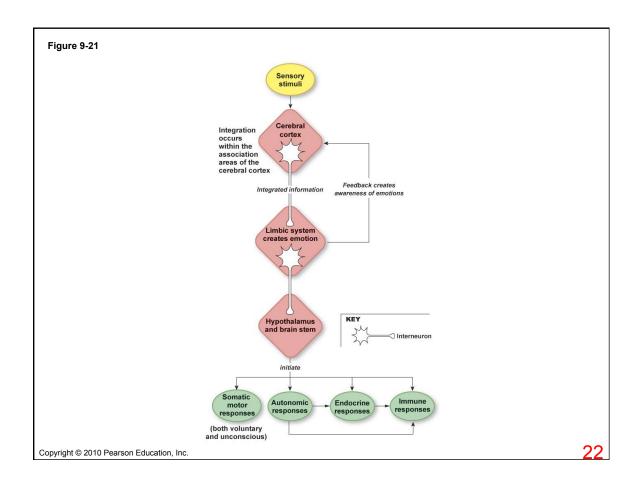


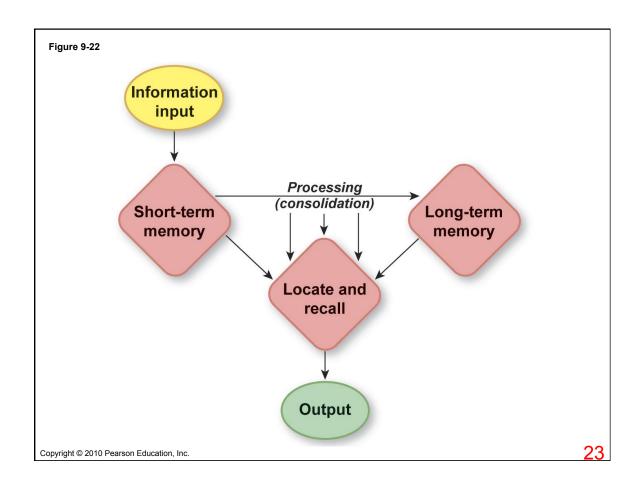












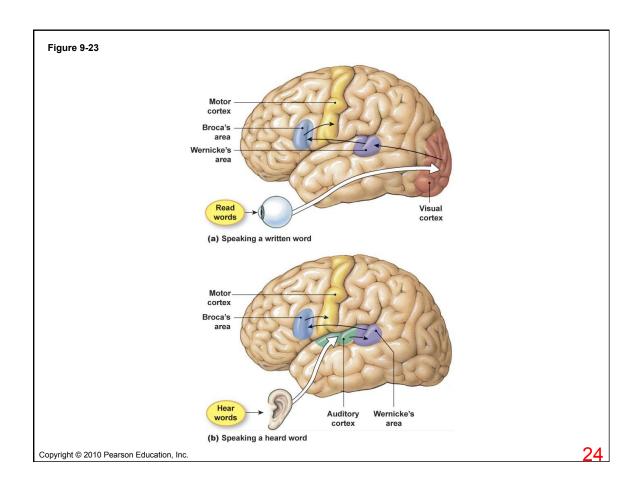


Table 9-1

TABLE 9-1 The Crania		al Nerves	
NUMBER	NAME	TYPE	FUNCTION
1	Olfactory	Sensory	Olfactory (smell) information from nose
II	Optic	Sensory	Visual information from eyes
III	Oculomotor	Motor	Eye movement, pupil constriction, lens shape
IV	Trochlear	Motor	Eye movement
V	Trigeminal	Mixed	Sensory information from face, mouth; motor signals for chewing
VI	Abducens	Motor	Eye movement
VII	Facial	Mixed	Sensory for taste; efferent signals for tear and salivary glands, facial expression
VIII	Vestibulocochlear	Sensory	Hearing and equilibrium
IX	Glossopharyngeal	Mixed	Sensory from oral cavity, baro- and chemoreceptors in blood vessels; ef ferent for swallowing, parotid salivary gland secretion
X	Vagus	Mixed	Sensory and efferents to many internal organs, muscles, and glands
XI	Spinal accessory	Motor	Muscles of oral cavity, some muscles in neck and shoulder
XII	Hypoglossal	Motor	Tongue muscles

Copyright © 2010 Pearson Education, Inc.

25

TABLE 9-4 Types o	f Long-Term Memory
REFLEXIVE (IMPLICIT) MEMORY	DECLARATIVE (EXPLICIT) MEMORY
Recall is automatic and does not require conscious attention	Recall requires conscious attention
Acquired slowly through repetition	Depends on higher-level thinking skills such as in- ference, comparison, and evaluation
Includes motor skills and rules and procedures	Memories can be reported verbally
Procedural memories can be demonstrated	

Copyright © 2010 Pearson Education, Inc.

26