

TABLE 8 - 2 *The Cranial Nerves*

CRANIAL NERVES (NUMBER)	PRIMARY FUNCTION	INNERVATION
Olfactory (I)	Special sensory	Olfactory epithelium
Optic (II)	Special sensory	Retina of eye
Oculomotor (III)	Motor	Inferior, medial, superior rectus, inferior oblique, and intrinsic muscles of eye
Trochlear (IV)	Motor	Superior oblique muscle of eye
Trigeminal (V)	Mixed	<i>Sensory:</i> orbital structures, nasal cavity, skin of forehead, eyelids, eyebrows, nose, lips, gums and teeth; cheek, palate, pharynx, and tongue <i>Motor:</i> chewing (temporalis, masseter, pterygoids) muscles
Abducens (VI)	Motor	Lateral rectus muscle of eye
Facial (VII)	Mixed	<i>Sensory:</i> taste receptors on the anterior $\frac{2}{3}$ of tongue <i>Motor:</i> muscles of facial expression, lacrimal (tear) gland, and submandibular and sublingual salivary glands
Vestibulocochlear (Acoustic) (VIII)	Special sensory	Cochlea (receptors for hearing) Vestibule (receptors for motion and balance)
Glossopharyngeal (IX)	Mixed	<i>Sensory:</i> posterior $\frac{1}{3}$ of tongue; pharynx and palate (part); receptors for blood pressure, pH, oxygen, and carbon dioxide concentrations <i>Motor:</i> pharyngeal muscles, parotid salivary gland
Vagus (X)	Mixed	<i>Sensory:</i> pharynx; auricle and external acoustic canal; diaphragm; visceral organs in thoracic and abdominopelvic cavities <i>Motor:</i> palatal and pharyngeal muscles and visceral organs in thoracic and abdominopelvic cavities
Accessory (Spinal Accessory) (XI)	Motor	Voluntary muscles of palate, pharynx, and larynx (with vagus nerve); sternocleidomastoid and trapezius muscles
Hypoglossal (XII)	Motor	Tongue muscles