

Nerve	Attachment	Foramen	Components	Nucleus of Origin (Efferent) or Termination (Afferent)	Main Structures Innervated
I. OLFACTORY	olfactory bulb	cribriform plate	SVA	olfactory mucosa	1) olfactory nasal mucosa (smell)
II. OPTIC	optic chiasma	optic foramen (canal)	SSA	lateral geniculate body (dienceph.) (relayed to calcarine fissure)	
III. OCULOMOTOR	sulcus on walls of interpeduncular fossa	sup. orbital fissure	GVE (parasymp) GSE	1) Edinger-Westphal (mid-brain) 2) Oculomotor nucleus (mid-brain)	1) (via ciliary ganglion) to sphincter pupillae & ciliary muscles 2) sup., med., & inf. recti and inf. obl. eyeball muscles and levator palpebrae superioris
IV. TROCHLEAR	superior medullary velum	sup. orbital fissure	GSE	1) trochlear nucleus (midbrain)	1) superior oblique eyeball muscle
V. TRIGEMINAL 1) Ophthalmic 2) Maxillary 3) Mandibular	lat. part of pons	sup. orb. fissure foramen rotundum foramen ovale	1) GSA 2) SVE	1) sensory nuc. of Nerve V " " (pons) 2) motor nucleus of Nerve V (pons)	VI) skin of upper part of face - (upper orbit and above) V2) skin of mid face, upper teeth, nasal and palatal mucosa V3) skin of lower face and jaw, floor of mouth, mucosa of ant. 2/3 of tongue, lower teeth and gums, ear pinna and canal 2) motor to muscles of mastication, ant. belly of digast., tensor tympani, mylohyoid, tensor palatini (first arch muscles)
VI. ABDUCENS	Sulcus between pons & medulla on anterior surface	sup. orbital fissure	1) GSE	1) abducens nucleus (pons)	1) motor to lateral rectus muscle (LR6)

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VII. FACIAL	Cerebellomedullary pontine angle	internal auditory meatus	1) GVA 2) SVA 3) GSA 4) GVE 5) SVE	1) nuc. solitarius (pons) 2) nuc. solitarius (pons) 3) sens. nuc. of N5 (pons) 4) sup. salivatory nuc. (pons) 5) motor nuc. of 7 (pons)	1) deep sens. from soft palate 2) taste buds from the anterior 2/3 of the tongue 3) sens. from small part of ear pinna 4) motor to submand. & subling. gls. lacrimal gls., glands in nasal mucosa 5) motor to musc. facial express., post. belly diagast., stylohyoid, stapedius
VIII. AUDITORY	Cerebellomedullary pontine angle	internal auditory meatus	1) SSA a. cochlear b. vestibular	a. cochlear nuclei (medulla) b. vestibular nuclei (medulla)	a. organ of Corti in cochlear duct b. semicircular canals, utricle & saccule
IX. GLOSSO-PHARYNGEAL	post. lateral (olivary) sulcus	jugular foramen	1) GVA 2) SVA 3) GSA 4) GVE 5) SVE	1) nuc. solitarius (medulla) 2) nuc. solitarius (medulla) 3) sens. nuc. of N5 (medulla) 4) inf. salivatory nuc. (medulla) 5) nuc. ambiguus (medulla)	1) deep sens. from post. tongue, soft palate, pharynx, mucosa of tymp. cavity, post. auditory tube, carotid body & sinus 2) taste buds post. 1/3 tongue & adjacent pharynx 3) gen. sens. from small part of ear pinna and canal 4) parotid salivary gland (secretomotor) 5) stylopharyngeus muscle

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X. VAGUS	post. lat (olivary) sulcus	jugular foramen	1) GVA 2) SVA 3) GSA 4) GVE 5) SVE	1) nuc. solitarius (medulla) 2) nuc. solitarius (medulla) 3) sens. nuc. of N5 (medulla) 4) dors. motor nuc. of 10 (medulla) 5) nuc. ambiguus	1) visc. sens. From pharynx, esoph., trachea, larynx and abdom. visc. 2) taste buds in epiglottis and glottis 3) sens. from small part of ear pinna, canal, and tymp. Membr 4) thoracic and abdominal viscera 5) muscles of pharynx and larynx, lev. palatini & cricothyroid
XI. SPINAL ACCESSORY (spinal roots)	Upper cervical spinal between post. and ant. roots	foramen mag and jugular foramen	1) SVE	1) accessory nucleus (spinal cord) (C1-C5)	1) motor to sternocleidomastoid and trapezius
XII. HYPOGLOSSAL	ant. lat. (olivary) sulcus	hypoglossal canal	1) GSE	1) hypoglossal nuc. (medulla)	1) intrinsic and extrinsic muscles of the tongue (palatoglossus excepted)