

CRANIAL NERVES

NERVE	FORAMEN	FUNCTIONAL COMPONENTS	CNS ORIGIN	and NUCLEUS	FUNCTION	PERIPHERAL DISTRIBUTION	GANGLION
I. Olfactory	Cribriform Plate	(SVA) Special Visceral Sensory	Telencephalon	Olfactory Bulb	Smell	Olfactory Mucosa in superior Nasal Cavity	Olfactory Mucosa
II. Optic	Optic Foramen	(SSA) Special Somatic Sensory	Diencephalon	Lateral Geniculate	Vision	Retina	One layer of Retina
III. Oculomotor	Superior Orbital Fissure	(GSE) General Somatic Motor	Midbrain	Oculomotor Nucleus	Ocular Movement and lid elevation	Levator Palp. Sup.; Four of the ocular muscles (IO, MR, SR, IR)	
		(GVE) General Visceral Motor	Midbrain	Nuc. Of Edinger - Westphal.	Constriction of pupil and lens accommodation	Sphincter pupillae, Ciliary muscle	Ciliary
IV. Trochlear	Superior Orbital Fissure	(GSE) General Somatic Motor	Midbrain	Trochlear Nucleus	Depress and laterally rotates eye	Superior Oblique Muscle	
V. Trigeminal a. Ophthalmic b. Maxillary c. Mandibular	Superior Orbital Fissure	(GSA) General Somatic Sensory	Pons	Chief Sensory Nucleus and Nucleus of Spinal tr. V.	Exteroception General sensation to anterior head (Face, oral cavity, sinuses, dura cranial)	Upper 1/3 of face and anterior scalp	Semilunar
			Medulla				
	Foramen Rotundum	(GSA) General Somatic Sensory	Spinal Cord	Chief Sensory Nucleus and Nucleus Spinal tr. V.	Exteroception	Mid 1/3 of face oral cavity	Semilunar
	Foramen Ovale	(GSA) General Somatic Sensory	Pons	Chief Sensory Nucleus and Nucleus of Spinal tr. V.	Nociception	Lower 1/3 of face oral cavity	Semilunar
			Medulla				
(GSA) General Somatic Sensory	Midbrain	Mesencephalic Nucleus of V.	Proprioception from head	Muscles of mastication, periodontal memb. tmj			
(SVE) Special Visceral Motor	Pons	Motor Nucleus of V.	Mastication	Muscles of mastication, tensor tympani and Tensor palati. Ant. digastric and mylohyoid			

* Autonomic (A)
Sensory (S)