

**CN V**

Also known as the trigeminal nerve. CN V is the largest cranial nerve and has both motor and sensory functions.



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## Trigeminal Nerve

### Three Gems

It is a complex nerve that has several nuclei located at various brainstem levels. There are 3 major branches: the ophthalmic nerve (V1, purely sensory), the maxillary nerve (V2, purely sensory) and the mandibular nerve (V3, sensory and motor).

## Sensory

## Sensors

The main sensory, spinal and mesencephalic nuclei of the trigeminal handle all trigeminal sensory functions including reflexes, cerebellar pathways and pathways to the thalamus.

## Facial Sensation

## Facial Gem Sensors

CN V provides pain, temperature, touch and position sense for the face.

### Motor Function (Via Mandibular Nerve)

## Motor

The trigeminal nerve motor branches, which are contained within the mandibular nerve, innervate the muscles of mastication among others.

## Mastication Muscles

## Chewing Motor

The trigeminal nerve innervates the 4 muscles of mastication: masseter, temporalis, medial pterygoid, lateral pterygoid. These muscles allow for chewing and biting.