

Cranial Nerve Data Table

Cranial Nerve	Motor, Sensory, or Both	Where does this nerve innervate?	Test Performed	Results of Test	Nerve Function Yes/No
Olfactory (I)					
Optic (II)					
Oculomotor (III)					
Trochlear (IV)					
Trigeminal (V)					
Abducens (VI)					

Cranial Nerve	Motor, Sensory, or Both	Where does this nerve innervate?	Test Performed	Results of Test	Nerve Function Yes/No
Facial (VII)					
Vetibulocochlear (VIII)					
Glossopharyngeal (IX)					
Vagus (X)					
Accessory (XI)					
Hypoglossal (XII)					

Cranial Nerve Lab

In this lab you will perform experiments to test each of the 12 cranial nerves. Read the following descriptions of actual clinical tests and then research 12 experiments to test your lab partners 12 cranial nerves. The tests you are going to perform must be researched online and/or by using your text, then written down in the spaces provided before you perform them on your subject. Also, as always, special attention must be given to the safety of both subject and examiner. Each student must have recorded the tests they are going to perform on this sheet and have it approved by the instructor before they use the test on their subject. Each nerve must be tested by performing a minimum of two different tests. Make sure to use the Cranial Nerve Lab data sheet to record your data.

1) Nerve: Olfactory (I)
Function: Smell

The ability to smell is performed by testing each nostril. Record your results on the data chart.

Name and description of each test being performed:

2) Nerve: Optic (II)
Function: Vision and detection of light by each pupil

The ability to see is tested by examining each eye using an eye chart and by checking the subjects peripheral vision.

3) Nerve: Oculomotor
Function: Eye movement upward, downward, and inward; narrowing (constriction) or widening (dilation) of the pupil in response to changes in light.

The ability to move the eye in specific directions as well as testing the upper eyelid for drooping (ptosis) will be tested.

4) Nerve: Trochlear (IV)

Function: Eye movement downward and inward

The ability to move each eye downward and inward will be tested.

5) Nerve: Trigeminal (V)

Function: Facial sensation and chewing

Blink reflex, strength and movement of jaw muscles, and level of facial sensations are will be tested.

6) Nerve: Abducens

Function: Lateral (side to side) eye movement

The ability to move each eye from the middle outward will be tested.

7) Nerve: Facial

Function: Facial expression and taste

The ability to taste sweet, sour, bitter, and salty as well as the ability to move the face will be tested.

8) Nerve: Vestibulocochlear
Function: Hearing and balance

The ability to hear and the level of a subject's balance will be tested.

9) Nerve: Glossopharyngeal (IX)
Function: Swallowing, gag reflex, and speech

10) Nerve: Vagus (X)
Function: Swallowing, gag reflex, speech, control of muscle in internal organs including heart.

Cranial nerves IX (glossopharyngeal) and X (vagus) control similar functions, therefore will be tested together. This includes the ability to swallow, the gag reflex, and speech.

11) Nerve: Accessory (XI)
Function: Neck turning and shoulder shrugging

The ability to turn the head and shrug the shoulders against resistance.

12) Nerve: Hypoglossal (XII)
Function: Tongue movement

Deviations on either side of the tongue is tested.
