

Lobe	Brodmann Area	Name	Function	Gyrus/Location	Lesion
Frontal (Motor areas)	4	-Primary Motor Area (M I)	Precise skilled movement of hands and feet		Contralateral hemiplegia (hemi paralysis)
{-Precentral gyrus -Superior, Middle, Inferior frontal gyri}	6	Secondary Premotor Area (PM)	Coordination and harmonization of movement. Controls trunk and proximal parts of limbs.	In front of area 4	Incoordination of movement (apraxia) and weakness in proximal parts (shoulder and trunk muscles)
	8	Frontal Eye Field	Voluntary eye tracking movement (both eyes move in the same direction to the contralateral side.	In front of area 6	Lesion in one side causes eye tracking to be possible only on that same side bc eyes can't move to contralateral side.
	44, 45	Broca's Area of Speech	Coordination of speech muscles	Inferior frontal gyrus of dominant (often left) hemisphere (Pars opercularis 44, Pars triangularis 45)	Motor aphasia Fragmented (non-fluent) speech
Parietal (Sensory area)	3, 1, 2	Primary Sensory Area	Receives sensations e.g., touch, pain, temp. but doesn't process them	Postcentral of lateral surface of opposite side	Sensory loss on contralateral side (hemianesthesia)
		Sensory Association Area	Processes and integrates sensory info. Helps understand and differentiate sensory stimulus	Rest of parietal lobe	
Occipital	17	Primary Visual Center (V I)	Just seeing (contralateral visual field)	Medially, around calcarine sulcus	Loss of vision field on contralateral side (contralateral hemianopia)
	18, 19	Visual association area (V II)	Integration of vision with past experience Understanding what you're seeing	Rest of occipital lobe	Visual agnosia (inability to recognise)
Temporal {Superior, Middle, Inferior temporal gyri}	41, 42	Primary Auditory Center (A I)		Middle of superior temporal gyrus	Slight diminution (not a complete loss) in contralateral hearing (bc hearing is both contralateral and ipsilateral)
	22	Auditory Association Areas (A II)		Rest of superior temporal gyrus	Auditory agnosia Sensory aphasia (fluent but meaningless speech)
	39	(Wernike's area)		Posterior ramus of lateral fissure	