The Cerebral Cortex: wrinkly, bumps and folds has greater surface area, more room for neurons; increases cellular mass

THE CEREBRAL CORTEX IS COMPOSED OF 4 LOBES

Frontal Lobe: 2 main regions

Motor cortex: responsible for body movements; you can stimulate different parts of it and your hand twitches or your leg moves.

Prefrontal cortex: executive functions, thinking and problem solving, supervises and directs all other parts of the brain, Broca’s area here which is responsible for speech production

Parietal Lobe: somatosensory cortex that directs feelings (not emotional) like touch, pain, temperature, pressure; sensorimotor cortex; spatial processing and spatial manipulation; helps orient yourself; understand the space around us more generally; spatial processing helps us get around the city and house;

Sensorimotor Cortex works as in the following example:

* I reach for a cup of coffee
* Prefrontal to plan the movement
* Motor cortex to complete movement
* Parietal cortex to tell me where the cup of coffee is in front of me

Temporal Lobe: auditory processing; info. goes into ears and processed in temporal lobe;

Temporal Lobe contains: Wernicke’s area: responsible for language reception & comprehension

Occipital Lobe: vision; see with our eyes – info. transported to back of brain for processing;