

Reading Disorders

Brain Locations and Function

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Brain Location	Function	Disorder
Base of the temporal lobe of the cerebral cortex, specifically the fusiform gyrus . Also known as visual word-form area (VWFA) .	Whole word reading: Recognition of familiar words	<i>Surface Dyslexia:</i> May be able to read phonetically (recognizing letters and the sounds they make), but cannot recognize familiar words
Location of phonological processing is still under study, but it definitely includes Broca's area	Phonetic reading: the recognition of the individual letters in a word and the sounds associated with them	<i>Phonological dyslexia:</i> may be able to recognize whole words but are unable to read phonetically. <i>Direct dyslexia:</i> Able to read aloud, but do not understand what they are reading
Cognitive processing transfers words and groups of words into memory	Ability to remember what has been read	Inability to remember what has been read

Reference: Carlson, N. R., & Birkett, M. A., (2017). *Physiology of behavior* (12th ed). Boston, MA: Pearson Education Limited.