K	W	L
What do you know?	What do you want to know?	What have you learned?
 Vestibular systems are mirror-symmetric structures within the inner ear Linear accelerations are detected by the utricle and saccule Angular accelerations are measured by the semi-circular canals Utricle and saccule are the simplest vestibular organs, each of which consists of an ovoidal sac about 3mm in the longest dimension Human utricle contains around 30,000 hair cells while the saccule contains around 16,000 Pilots all need extended periods of training to get used to the new vestibular stimulation pattern in flying 	How does the transduction of linear accelerations occur? Vertigo	 Movements deflects the hair bundles elicits an electrical response in the hair cells Macula of each utricle is oriented to lie in the horizontal plane Any substantial acceleration within the horizontal plane will deflect the utricle hair cells Hair cells are organized so that their axes of greatest mechanosensitivity lie in all possible directions We have two vestibular labyrinths so damage to either one can cause disorientation and vertigo CNS associates a specific pattern of vestibular activity within our behavioural repertoire Abnormal activation of the vestibular system leads to elicitation of inappropriate reflexes