## Humans' Accommodations to Language

## **Mammals Lactate**

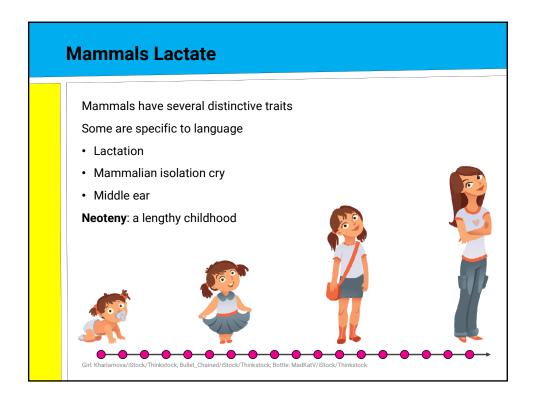
Mammals have several distinctive traits

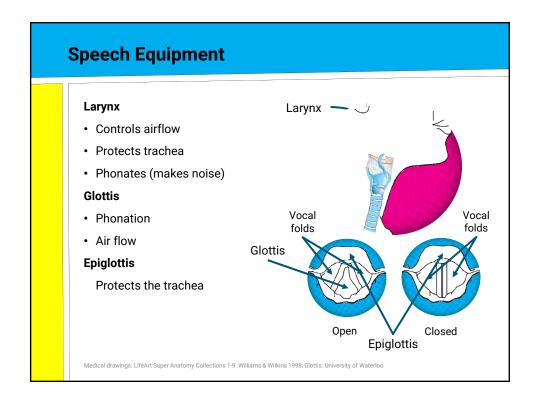
Some are specific to language

- Lactation
- · Mammalian isolation cry
- Middle ear



 $Girl: Kharlamova/iStock/Thinkstock; Bullet\_Chained/iStock/Thinkstock; Bottle: MadKatV/iStock/Thinkstock; Bullet\_Chained/iStock/Thinkstock; Bullet\_Chained/iStock/Thinkstock/Think$ 





## **Speech Equipment**

Human babies, apes and australopithecus



- Tongue rooted in the mouth
- · Larynx behind mouth
- Can breathe and swallow at the same time

Adult homo erectus +



- Tongue rooted in the throat
- · Larynx in throat
- Cannot breathe and swallow at the same time

Baby, Girl: Kharlamova/iStock/Thinkstock

## **Speech Equipment**

Lower tongue root + larynx + lips =

- Consonants
- Vowels
- Syllables
- Patterns of rhythm and modulation

All of this together gives us speech





Mouths: VectorStory/iStock/Thinkstock

