nasal cavity

Process: Ⓐ

oral cavity

Ⓓ

tongue

pharynx

Ⓔ

Ⓒ
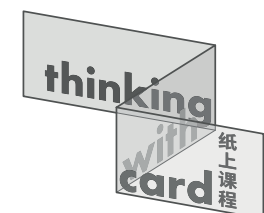
Ⓑ

larynx
(voice box)

→ air

→ food

trachea

esophagus
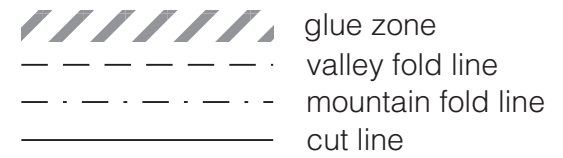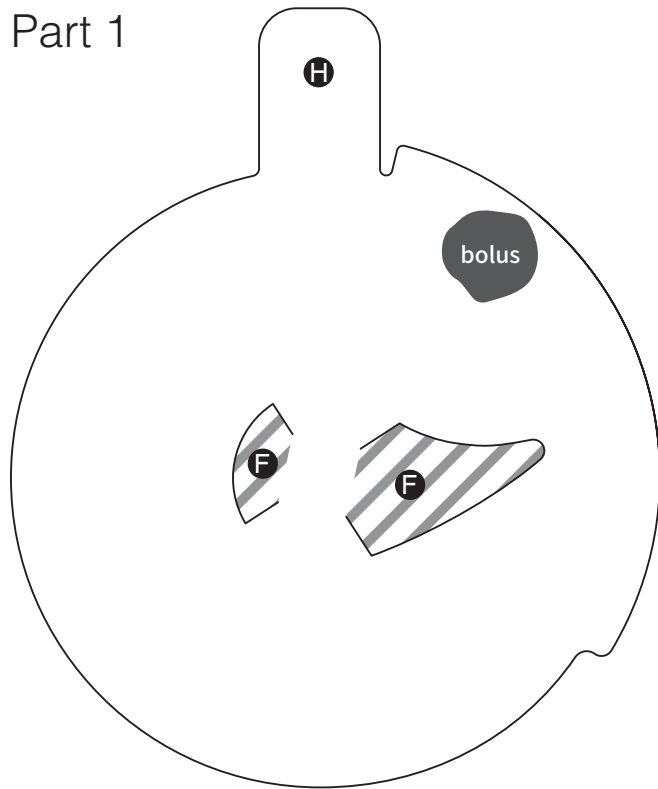
Breathing and Swallowing (deglutition)

This model demonstrates three processes linked to swallowing (deglutition) in humans. Swallowing involves the passage of a bolus (chewed, rounded mass of food) from the mouth to the pharynx and into the esophagus. In order to prevent the trachea from ingesting food matter, the epiglottis closes over the larynx in an automatic temporary reaction (the swallowing reflex). Shortly after the passage of the bolus, the epiglottis opens up again to allow for breathing.
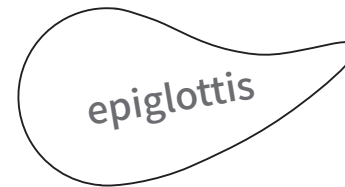
Limitations of the Model

The model simply demonstrates the process of respiration and deglutitioon, focusing on the role of epigelic cartilage in this process.Actual deglutition is a more complex reflex action.
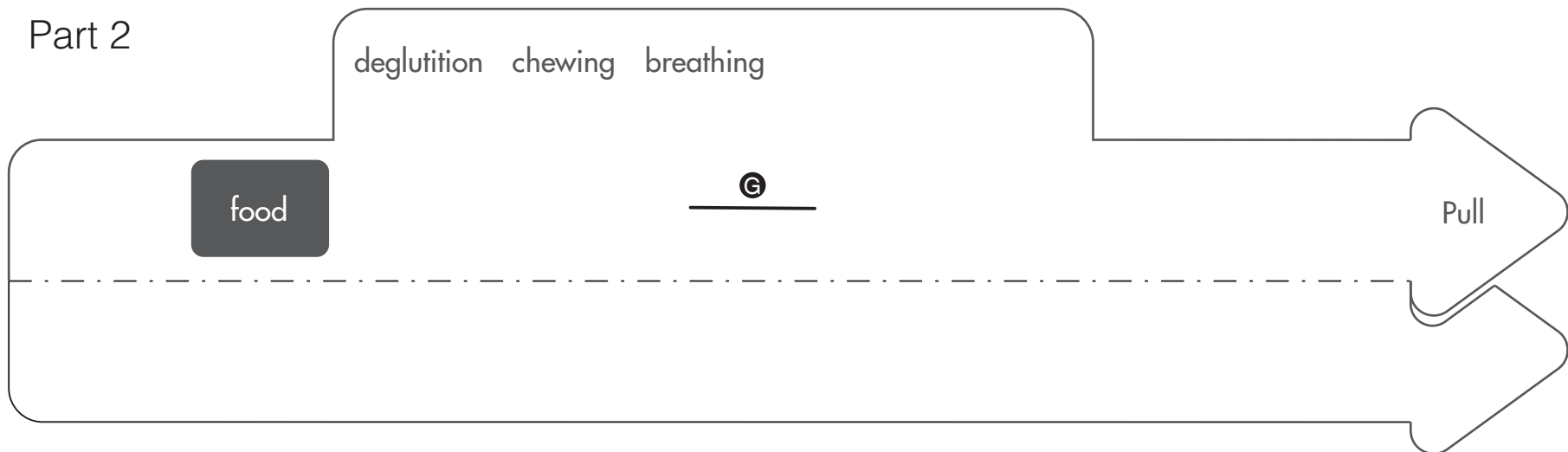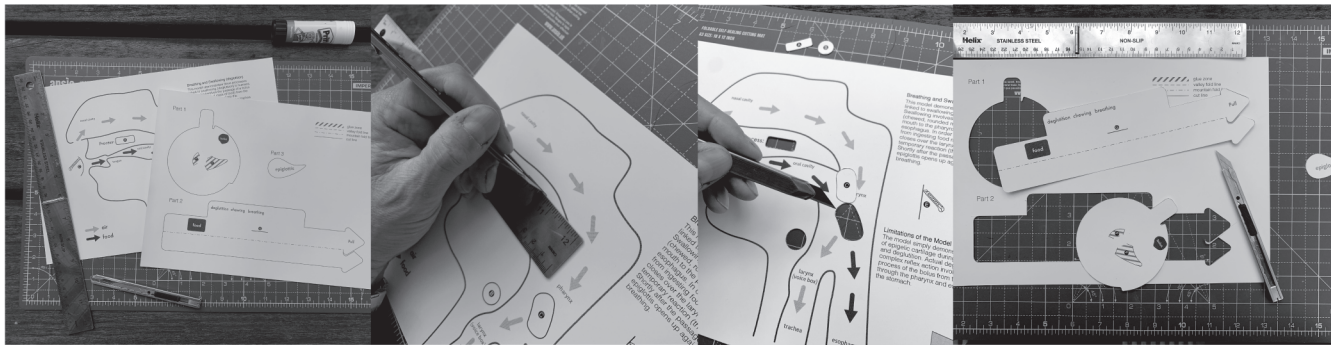
Part 1

H

bolus

F

F

Part 3

epiglottis

Part 2

deglutition   chewing   breathing

food

G

Pull

①

②

① Cut out all parts as shown

② Cut out slot **G** in Part 3, fold in half along mountain fold and push through slots **D** and **E**

③ Insert flaps **F** of Part 1 through hole **B** on the main card

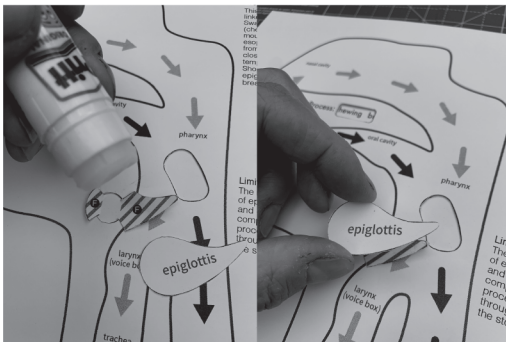④ Insert part **H** of Part 1 into the slot **G** of Part 2

⑤ Glue Part 3 on to the main card paying attention to the marked glue zone

③
④

⑤