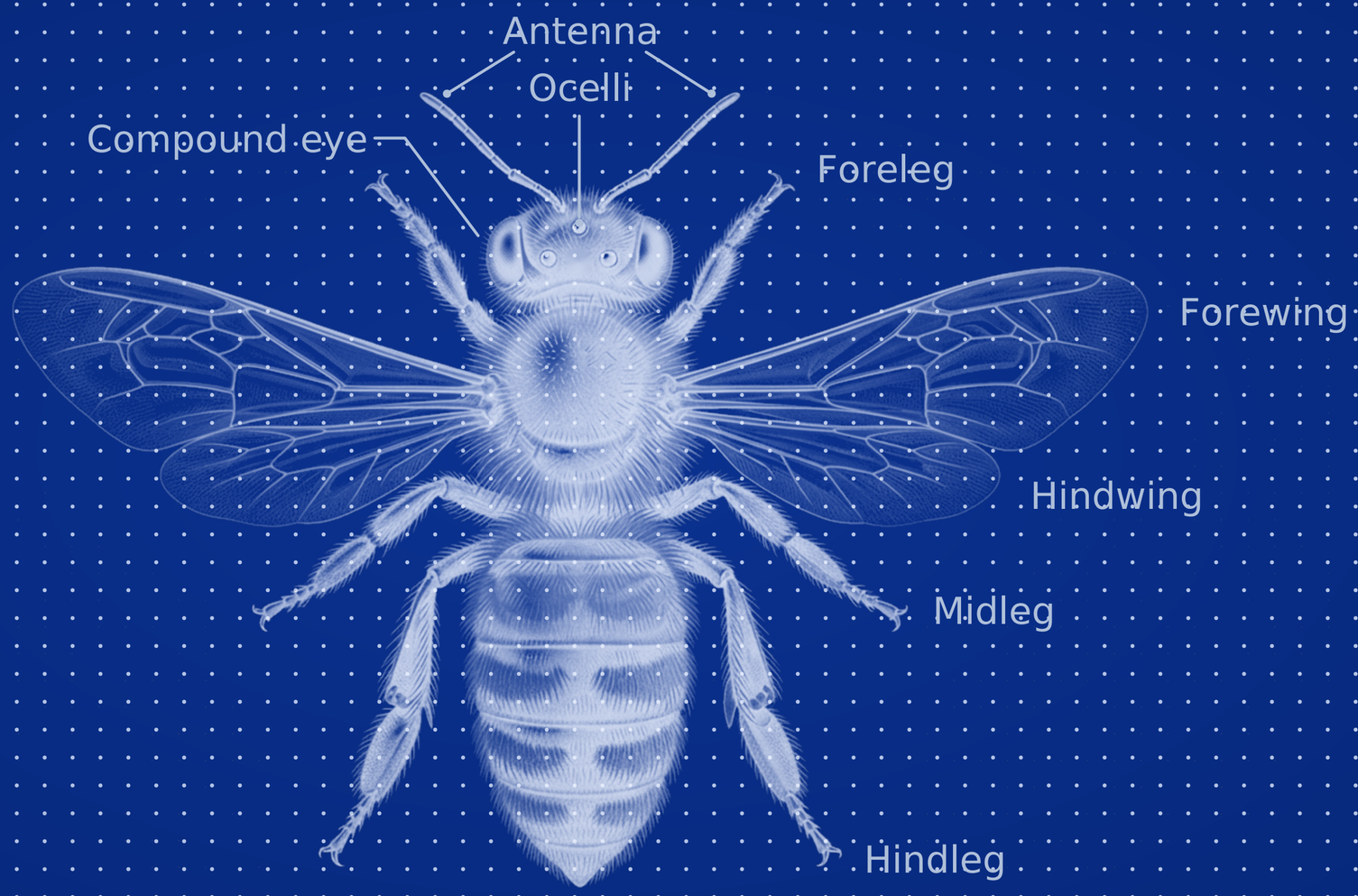
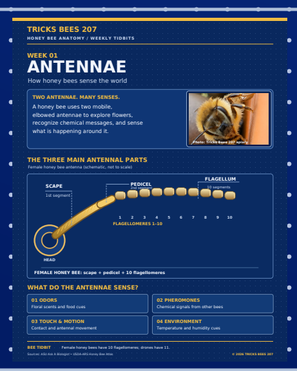
TRICKS BEES 207

The Anatomy of a Worker Honey Bee




TRICKS BEES 207
HONEY BEE ANATOMY / WEEKLY TIDBITS
WEEK 01
ANTENNAE
How honey bees sense the world
TWO ANTENNAE. MANY SENSES.
A honey bee uses two mobile, elbowed antennae to explore flowers, recognize chemical messages, and sense what is happening around it.
Photo: Richard Bartz
THE THREE MAIN ANTENNAL PARTS
Female honey bee antenna (schematic, not to scale)
SCAPE
1st segment
PEDICEL
2nd segment
FLAGELLUM
10 segments
1 2 3 4 5 6 7 8 9 10
FLAGELLOMERES 1–10
HEAD
FEMALE HONEY BEE: scape + pedicel + 10 flagellomeres
WHAT DO THE ANTENNAE SENSE?
01 ODORS
Floral scents and food cues
02 PHEROMONES
Chemical signals from other bees
03 TOUCH & MOTION
Contact and antennal movement
04 ENVIRONMENT
Temperature and humidity cues
BEE TIDBIT Female honey bees have 10 flagellomeres; drones have 11.
Source: ASU Eric A Brenner | 2004-HEU-honey_bee_three
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Week 2

Week 3

Week 4

Week 5

Week 6

Week 7

Week 8

Week 9

Week 10