

Name:

Date:

Class:

Structure/Function Analysis Worksheet **Answer Key**

Activity 2: Grasping

Review videos, photos, diagrams, and text about a plant/animal that could inspire your airborne transport design. Fill out the table below. (Link to photos, videos, and text about each organism: <https://padlet.com/TuftsCEE0/grasping-8aqcinra3exqb8tm>.)

Plant or animal	Parts - What body parts or structures does it use to grasp? (Use nouns.)	Properties - Describe each part. (Use adjectives.)	Actions - What does each body part do? (Use verbs.)
Bird talons	Toes, foot, ankle ligament	Toes: flexible, pointing backward Ligament: muscle-like, connective	Ligaments: shorten and lengthen Toes: curl inward when ligament shortens; uncurl when ligament lengthens
Venus Fly Trap	Two leaves, Inner and outer layer of leaves, Hinge	Divided in two halves, jaw-like	Outer layers: expand, halves shut together when outer layers expand
Trap-Jaw Ant	A pair of Jaws, Peg, Groove, Muscle	Jaws: straight and long The pegs and grooves: latch-like Muscle: spring-like	Jaws: closes when pegs slip out of the grooves Muscle: relax and stretches

Storyboard of grasping movement - Break the movement into steps. If you need more space, use the back of this sheet.

Step 1	Step 2	Step 3
Answers will vary.	Answers will vary.	Answers will vary.

Explain what is going on in the steps above.

Answers will vary.

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