

Name:

Date:

Class:

Structure/Function Analysis Worksheet Answer Key

Activity 4: Flinging

Review videos, photos, diagrams, and text about a plant/animal that could inspire your flinging design. Fill out the table below. ([Link to photos, videos, and text about each organism: https://padlet.com/jazzxu/flinging-gsuey4t7aqx0e5e9.](https://padlet.com/jazzxu/flinging-gsuey4t7aqx0e5e9))

Structure and Function Analysis

Plant or animal	Parts - What body parts or structures does it use to fling? (Use nouns.)	Properties - Describe each part. (Use adjectives.)	Actions - What does each body part do? (Use verbs.)
Click beetle	2 pegs and 2 grooves, head, muscle	Pegs and grooves: interlocking Head: rotates around the abdomen. Muscle: like an internal spring	Pegs: slide into grooves Head: pushes off the ground Muscle: holds/releases the pegs
Seed pods	Seeds Walls	Seeds: smooth, spherical Walls: long and thin, can hold water or dry out	Violets: walls shrink and move closer together, put pressure on seeds. Impatiens: walls shrink on one side, bending. The bending wall pushes on seeds.
Spring tail flea	Upper muscle Lower muscle Tail	Upper muscle: long Lower muscle: short Tail: fork shaped	Upper muscle: contracts at launch Lower muscle: extends Tail: unfolds, pushes against the surface

Storyboard of flinging 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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