

# GRASSHOPPER DISSECTION LAB BIOLOGY JUNCTION ANSWER KEY

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**How to dissect a grasshopper?** Use scissors to cut through the exoskeleton's ventral side from the head to the posterior end of the abdomen. Pull the cut sides apart and observe the tracheal tubes running into the internal organs. Pin each side of the insect to the dissecting pan. Locate the yellow fatty tissue that covers the internal organs.

**How many general body segments do grasshoppers have?** They have three body regions (the head, thorax, and abdomen) and possess a tracheal system for breathing, three pairs of legs, and two pairs of wings.

**Which of the three body regions of the grasshopper is specialized for locomotion?** The thorax, locomotion center of the grass-hopper, is a stout, boxlike structure consisting of three fused segments: the prothorax, mesothorax, and metathorax. Each segment bears a pair of legs.

**Is the grasshopper from your dissection male or female?** Determine if your grasshopper is a male or female by looking at the end of the abdomen. Females have a tapered abdomen that ends in a pointed egg laying tube called the ovipositor. Male have a more rounded abdomen that turns upward.

**What is the easiest animal to dissect?** Preserved fetal pigs are ideal specimens for teaching mammalian anatomy. Although they are immature, the body systems are easily identifiable and very similar to humans. Their large size allows students to easily identify structures and makes them suitable for group dissection.

**Can a grasshopper survive without a leg?** Grasshoppers cannot regenerate lost legs. Losing the leg might have allowed it to survive an attack that might otherwise have killed it.

**What are the 7 characteristics of grasshoppers?** Ringlike segments, jointed appendages, exoskeleton. Three body regions, three pairs legs, one pair antennae, tracheal system, usually two pair wings. Forewings leathery, hindwings membranous, chewing mouthparts, hindlegs enlarged for jumping, simple metamorphosis.

**What are the chewing mouthparts of a grasshopper?** The grasshopper has mandibulate mouthparts that are directed downward for biting and chewing the leaves of a host plant. Its labrum is a broad flap that serves as a front lip. Mandibles operate from side to side. They have overlapping edges that cut like scissors and molar surfaces for grinding or crushing.

**Do grasshoppers have genders?** Male and female admirable grasshoppers look quite different: Males are smaller than females and are brown, black, and tan. Females are larger and greener. Female admirable grasshoppers are large and marked with bright green and tan, and the males are smaller and drabber.

**How many eyes does a grasshopper have?** Grasshoppers have five eyes. Three small eyes only detect light and dark. Two large eyes have many lenses and are called compound eyes.

**What is the breathing organ of a grasshopper?** They use holes called spiracles and air sacs to breathe.

**What type of skeleton does a grasshopper have?** The type of skeleton that is appropriate for insects such as grasshoppers is an exoskeleton. Since insects are invertebrates, they don't have an internal skeleton. Instead, all insects have a firm covering that is known as an exoskeleton.

**How is the body of grasshopper divided into parts?** The grasshopper body is divided into 3 basic components: the head, which bears the sensory structures such as eyes, antennae, and mouthparts; the thorax, which bears the structures associated with movement, namely the legs and wings; and the abdomen, which

bears the digestive and reproductive structures.

**What are the three sections of a grasshopper's body?**

**What are the parts of the digestive system of a grasshopper?** As in all other insects, the alimentary canal of the grasshopper is divided into three parts: (1) foregut made up of the buccal cavity, pharynx, oesophagus, crop, and the proventriculus; (2) the midgut consisting of the ventriculus, or stomach; (3) and the hindgut consisting of the small intestine or ileum, the large ...

**Is animal dissection legal?** While the laws differ from state to state, they generally allow students to refuse to participate in instructional exercises (both observation and participation) that involve harm or destruction to dead animals (and most laws also prohibit vivisection on higher vertebrate animals).

**How many animals are killed a year for dissection?** Dissection harms animals. While the exact number is unknown, dissection requires the killing of an estimated 12 million animals annually in the U.S. alone. Frogs—the most commonly used animals for dissection exercises—are harvested and killed specifically for biological study.

**What are unborn pigs called?** Fetal pigs are unborn pigs used in elementary as well as advanced biology classes as objects for dissection. Pigs, as a mammalian species, provide a good specimen for the study of physiological systems and processes due to the similarities between many pig and human organs. External view of a fetal pig.

**What kills grasshoppers instantly?** Sprayable insecticides can kill grasshoppers on contact and when grasshoppers feed on treated plants. Sprays are less expensive than dusts, but they can kill beneficial insects and other susceptible animals.

**Is it OK to touch grasshoppers?** The grasshoppers do not bite or sting. However, this doesn't mean that you should pick them up or handle them. If you do, they will spray a foul smelling foam as a form of defense. As you might remember from your school days, insects that are brightly colored are generally toxic.

**What happens if a grasshopper touches you?** Grasshoppers are common insects throughout the world. They may harm your lawn or garden, but they rarely hurt humans unless they feel threatened. If they do feel threatened, they may bite, kick, or regurgitate. But insecticides and even just mowing a border around your lawn can help keep grasshoppers out.

**Do grasshoppers have 3 eyes?** They possess 3 simple eyes and 2 compound eyes. The simple eyes, also called ocelli, can be found between the two compound eyes. Simple eyes do not function in forming images; however, these are responsible for distinguishing between light and dark.

**What are 5 interesting facts about grasshopper?**

**What is the lifespan of a grasshopper?** The typical lifespan of a grasshopper is around 12 months. Organised by the Royal Entomological Society, the seven-day campaign, which concludes today, encourages people to learn more about the wonderful world of insects!

**How is the body of grasshopper divided into parts?** The grasshopper body is divided into 3 basic components: the head, which bears the sensory structures such as eyes, antennae, and mouthparts; the thorax, which bears the structures associated with movement, namely the legs and wings; and the abdomen, which bears the digestive and reproductive structures.

**How do you prepare a grasshopper?** Make sautéed grasshoppers. Just take off the wings and legs, clean the grasshoppers, and get ready to sautee them. Here's what you do: Marinate the grasshopper in a mixture of lemon and lime juice for at least an hour. Sauté the garlic, serrano chile, and diced onion in a pan filled with oil over medium heat.

**How do you turn a grasshopper into a locust?** But if they are crowded, they will transform into locusts. There's something about the sight and smell of other grasshoppers that changes their behavior. Drawing them together making them more gregarious and starting the feedback loop that leads to locusts.

**How do you cut a wire in a grasshopper?** How to Delete a Wire Connection in Grasshopper. To remove an existing connection between two Grasshopper

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components, hold down CTRL as you click and drag between the two ends of the wire connection points.

### **What are 5 interesting facts about grasshoppers?**

**Do grasshoppers have separate sexes?** Examination of the genitalia is used to distinguish between male and female grasshoppers. Male grasshoppers are distinguishable by the cerci, furcula, subgenital and supraanal plates.

**What are the chewing mouthparts of a grasshopper?** The grasshopper has mandibulate mouthparts that are directed downward for biting and chewing the leaves of a host plant. Its labrum is a broad flap that serves as a front lip. Mandibles operate from side to side. They have overlapping edges that cut like scissors and molar surfaces for grinding or crushing.

**Can you touch a grasshopper?** Handling: If you handle a grasshopper, especially if you do so roughly or in a way that makes them feel threatened, they may bite in self-defense. It's important to handle them gently if you need to move them.

**What are fried grasshoppers called?** Traditionally, chapulines are prepared by toasting and frying on a comal, the flat, cast-iron griddle widely used in Mexican cuisine. Then, the bug is seasoned with garlic, lime, salt and chiles. On its own, a chapulín (the word for a single grasshopper) doesn't have much flavor and is rather bland.

**What part of a grasshopper do you eat?** To prepare crickets and grasshoppers, pull off their heads and the entrails should come with; discard both. The entrails are edible, but removing them reduces the risk of parasite transmission. For this reason, always cook the bugs before eating them. Remove the wings and legs.

**Can I touch a locust?** Locusts do not bite people like mosquitoes or ticks since locusts eat plants. While it is unlikely that locusts would bite, they might nibble on someone without breaking the skin or pinch someone to help defend themselves.

**Are locusts edible?** Locusts are highly nutritious, hence they can be excellent sources of food and feed. Locusts have been traditionally consumed in 65 countries for millennia. They are rich in industrial products like chitin, oil and bioactive proteins.

**What is the difference between a locust and a grasshopper?** Locusts and grasshoppers are the same in appearance, but locusts can exist in two different behavioural states (solitary and gregarious), whereas most grasshoppers do not. When the population density is low, locusts behave as individuals, much like grasshoppers.

**How do you move a line in grasshopper?**

**How do you cut a curve in grasshopper?**

**How do you bend a line in grasshopper?**

**How do you win mathletics?**

**What is the highest level in live mathletics?** For each of the 10 gaming levels of Live Mathletics, students are assigned one of five ability rankings — ranging from a Raging Rookie all the way up to a Human Calculator. These are dependent on the scores and accuracy percentages of the student.

**Who is the fastest person on Mathletics?** Leo Mason has broken the Level 1 Live Mathletics World Record.

**What is the highest score on Mathletics level 1?** He's done it again! Super Mathlete Leo Mason has broken the Level 1 Live Mathletics World Record, posting a score of 141.

**What is the highest star math score?** All the results of Star Math tests across grade levels are converted to a common scale using an item- response theory model; these scaled scores range from 0 to 1400.

**How to get free points in Mathletics?**

**What are the disadvantages of Mathletics?** While the videos and interactives are great for self-directed learners, Mathletics doesn't replace the need for a classroom teacher. Kids can get stuck on a topic, answering questions incorrectly over and over again, without the program adapting or providing support (feedback is limited to correct or incorrect).

**Who is the fastest 11 year old cuber?** Tarron Nelson shocked his classmates at Northview Elementary School with a remarkable skill. The 11-year-old from Jennings, Missouri can solve a Rubik's Cube in less than two minutes. He recently achieved a record completion of just 43 seconds.

**Who is the fastest 13 year old cuber?**

**Who is the girl human calculator?** Shakuntala Devi (4 November 1929 – 21 April 2013) was an Indian mental calculator, astrologer, and writer, popularly known as the "Human Computer". Her talent earned her a place in the 1982 edition of The Guinness Book of World Records.

**What does raging rookie mean on Mathletics?** Your ability ranking – from Raging Rookie to Human Calculator – depends on your top score and accuracy level. The Live Mathletics computer uses your average scores from your last three games to decide your ranking. Improve your scores and watch your ranking increase, but be careful ... your ranking can also go down!

**What age is Mathletics for?** What ages does Mathletics cover? Mathletics has 1000's of targeted activities for children aged from 5 to 16.

**What do gold bars mean in Mathletics?** Page 11. Mathletics Primary Student Experience. Using the personalised learning space. When students achieve more than 85% in an activity, they are awarded with a gold bar.

**What gives you the most points in Mathletics?** 2 points per correct answer within the student's bonus level of Live Mathletics. 10 points per correct answer within individual Mathletics curriculum activities\* 20 points per correct answer within a curriculum Topic Test\* 10 points for every correct answer in Skill Quests activities.

**How to rank up in Mathletics?** As more and more games of Live Mathletics are played, a player's speed and accuracy will earn them a Live Mathletics Ranking. Rankings are calculated as an average of their three most recent Live Mathletics games.

**What is the best rank in Mathletics Live?** There are five different rankings to achieve: Raging Rookie, Junior Giant, Speed Demon, Almost Einstein and Human

Calculator. will find other Mathletes for you to compete against (unless you have selected the Computer).

**What do gold bars mean in Mathletics?** Page 11. Mathletics Primary Student Experience. Using the personalised learning space. When students achieve more than 85% in an activity, they are awarded with a gold bar.

**What is the Herman and Chomsky model of propaganda?** First presented in their 1988 book *Manufacturing Consent: The Political Economy of the Mass Media*, the propaganda model views corporate media as businesses interested in the sale of a product—readers and audiences—to other businesses (advertisers) rather than the pursuit of quality journalism in service of the public.

**What are the five filters of media Chomsky?** The five filters are: (1) ownership; (2) advertising; (3) official sources; (4) flak; and (5) marginalizing dissent. The author discusses the applicability of Herman's and Chomsky's propaganda model today.

**What is flak in communication?** Flak and the enforcers: "Flak" refers to negative responses to a media statement or program (e.g. letters, complaints, lawsuits, or legislative actions). Flak can be expensive to the media, either due to loss of advertising revenue, or due to the costs of legal defense or defense of the media outlet's public image.

**What was Chomsky's famous quote?** If we don't believe in freedom of expression for people we despise, we don't believe in it at all.

**What is Chomsky's model?** The Chomsky model, propounded by the eminent linguist Noam Chomsky, constitutes a framework that revolutionized the understanding of language structure and grammar. In the context of AI, the Chomsky model serves as a blueprint for developing language processing algorithms and machine learning techniques.

**What are the 7 common types of filters in communication?**

**What are the examples of media filter?** Here are some commonly used filter media: Mechanical/Physical Filter Media: These filter media rely on physical barriers to separate particles from the fluid. Examples include woven or non-woven fabrics, such as polyester, cotton, nylon, or polypropylene, which can capture particles based



on their size.

**What are the main filters in filter theory?** The filter theory states that there are three filters that individuals apply when choosing their partner. The three filters of the filter theory are sociodemographic characteristics, similarity in attitudes and complementarity.

**What is Phatic communication?** Phatic communication is verbal or non-verbal communication that has a social function, such as to start a conversation, greet someone, or say goodbye, rather than an informative function. Learners sometimes find it difficult to recognise phatic communication.

**What is imperviousness in communication?** Impervious responses fail to acknowledge the other person's communicative attempt. Interrupting responses occur when one person begins to speak before the other is through making a point. Irrelevant responses are totally unrelated to what the other person was saying.

**What is invisibility in communication?** Invisible communication refers to nonverbal and implicit forms of communication that do not rely on the use of words. These forms of communication can include body language, facial expressions, gestures, eye contact, tone of voice, posture, and other cues that convey meaning and emotional states.

**Why is Noam Chomsky so famous?** He created or co-created the universal grammar theory, the generative grammar theory, the Chomsky hierarchy, and the minimalist program. Chomsky also played a pivotal role in the decline of linguistic behaviorism, and was particularly critical of the work of B. F. Skinner.

**What is Noam Chomsky's belief?** Chomsky believes individuals can gain job satisfaction and a sense of fulfilment and purpose by controlling their productive life. Chomsky argues that unpleasant and unpopular jobs could be fully automated, carried out by specially remunerated workers, or shared among everyone.

**Who said no one ever learned anything by talking?** Having led his namesake CNN TV show, Larry King Live, from 1985 until 2010, he once said of his interview style: "I remind myself every morning: Nothing I say this day will teach me anything. So if I'm going to learn, I must do it by listening. I never learned anything while I was

talking."

**What are the weaknesses of Chomsky's theory?** Limitations of Chomsky's theory  
He did not study real children. The theory relies on children being exposed to language but takes no account of the interaction between children and their carers. Nor does it recognise the reasons why a child might want to speak, the functions of language.

**What is Krashen's theory?** What is Krashen's input theory? Stephen Krashen's input hypothesis states that language learners must receive language input that is at their level and then slightly beyond so that the process remains both comprehensible and challenging.

**What is David Crystal theory?** David Crystal has the theory that children learn language in five stages, which aren't clearly defined and some tie in with each other. These stages are: Stage One: This is where children say things for three purposes: To get something they want.

**Is Daisuke Sato dead?** It was serialized in Fujimi Shobo's Monthly Dragon Age between the September 2006 and May 2013 issues, but was left unfinished following Daisuke Sato's death in March 2017.

**What happened to the author of Highschool of the Dead?** He died on March 22, 2017, from ischaemic heart disease. After Daisuke's death, the decision was made to leave Highschool of the Dead unfinished.

**Did Highschool of the Dead End?** Is High School of the Dead anime series over? Sadly yes due to the author of the series dying several years ago.

**Who kills Sato?** Finale "Yoshino" brought that tension to a head with one out-of-nowhere cliff-hanger: Rising Chihara-Kai member Sato (Shou Kasamatsu) stabbed seemingly to death by yakuza "brother" Gen (Nobushige Suematsu) in an act of revenge.

**Who did Daisuke end up with?** You may have heard this from posts here and there but the story ends with two alternate endings. Ending 1: Daisuke continues to be a great cop in Division 1. He realises his feelings for Suzue and proposes to her, to which she accepts to marry him.

**Why was Highschool of the Dead canceled?** The Passing of Daisuke Sato Marked the End of the Show Sadly, in 2011, Sato was diagnosed with ischaemic heart disease, and his condition grew progressively worse over the next several years. Shortly after the release of Highschool of the Dead's now final chapter the manga was placed on hiatus once again.

**Is Highschool of the Dead Season 2 possible?** Why isn't there a high school of the dead season 2? One of the co-creators was sick and eventually died last year. Tsunami/earthquakes in 2011 destroyed their work and it took nearly 3 years for them to get set back up. Sato didn't want to work on it much because of his heart condition.

**Why didn't Highschool of the Dead get a second season?**

**Is Highschool of the Dead harem?** A satisfying romantic sub plot. This is a harem anime that actually has an INTERESTING MAIN CHARACTER!

**Who is the MC in Highschool of the Dead?** Takashi Komuro (?? ?, Komuro Takashi) is a 17-year-old second-year student of Fujimi High School and the male protagonist and viewpoint character of the series. He and Rei are childhood friends and also in the same class.

**What genre is Highschool of the Dead?**

**Who did Sato marry?** In 1943, Sato's father arranged him to marry Yukie, but Miyagi made a big speech in front of the whole village about breaking tradition of arranged marriage so he could marry Yukie, Sato felt disgraced and challenged Miyagi to fight to death to save his honor, but Miyagi not wanting his best friend to die left Okinawa ...

**Who is Sato's crush?** Sato's first love interest was Jinpei Matsuda, whom she only got to know briefly due to his death in a bomb explosion. Although she denied it at first, she finally acknowledged her feelings for Takagi.

**Who jumped Sato?** Eventually, Kobayashi reports that Sato has awoken, and when Gen asks if he revealed who attacked him, Kobayashi denies it. Gen would later be ousted as Sato's attacker when he visited the Tozawa clan to protect him for what he

had done.

**Why is Daisuke so rich?** Despite a detective's salary not being as large as other professions, Daisuke comes from the billionaire Kambe family. He found his everyday life boring and chose to join the police force to break the cycle. However, Daisuke's hilarious amount of money made him more of an asset to the force than a risk.

**What gender is Daisuke?**

**Who does Davis marry?** Anthony Davis and wife, Marlen Polanco Davis, know a little something when it comes to love. When not tearing up the court with the Los Angeles Lakers or preparing for the 2024 Paris Olympics, Davis and his wife are inseparable, raising their three children together at their home in Bel Air, Los Angeles.

**Who killed Daisuke in Arifureta?** When Eri was about to get killed by Hajime, Daisuke attacked him but was easily neutralized before being sent flying to the courtyard, where he was eaten alive by a group of monsters. Sometime after Daisuke's classmates returned to Earth, Hajime and Aiko visited his family and told them about his death.

**Who does Daisuke have a crush on?** Daisuke is oblivious to Suzue's feelings, but he has SUPPRESSED romantic feelings for Suzue that does not manifest until the very end when he proposes to her.

**Why did Daisuke betrayed Hajime?** Shortly after the class was transported to the parallel world of Tortus, Daisuke attempted to kill Hajime, hoping to garner the attention of his love interest Kaori Shirasaki.

**What gender is Daisuke?**

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