



## Insects



What makes an insect an insect?







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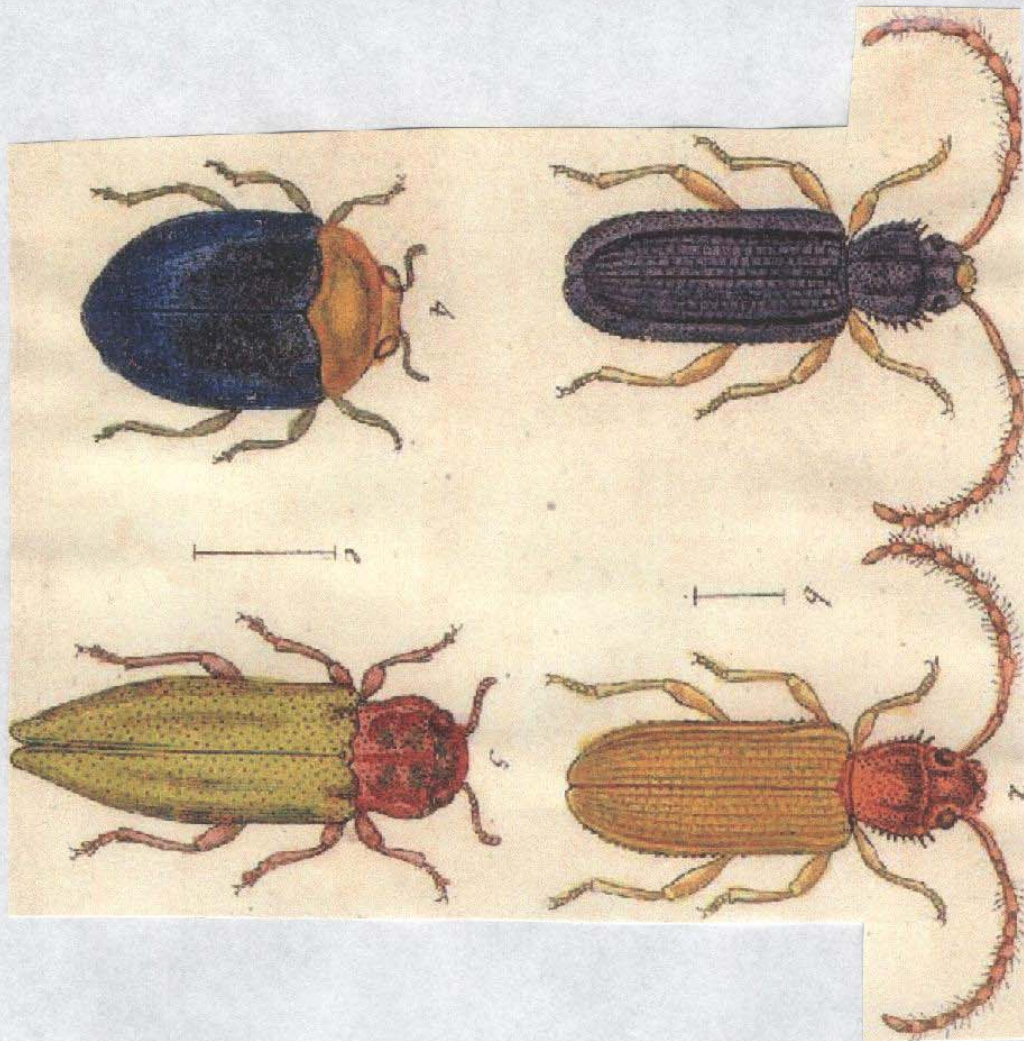
## Insects



What makes an insect an insect?







Insects have



been



on



this



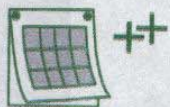
earth



for



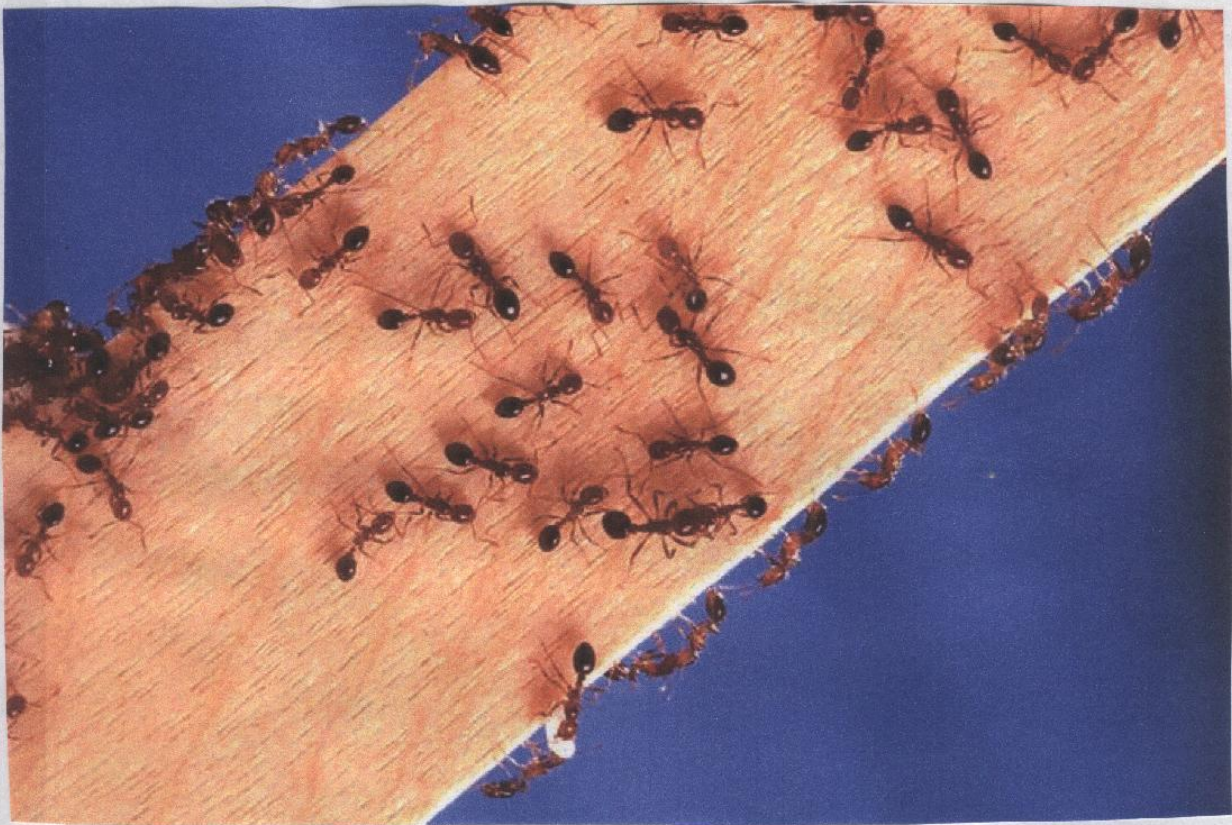
over 350 million



years.







There



are



more



insects

than



any



other



kind



of



animal



on

Earth.

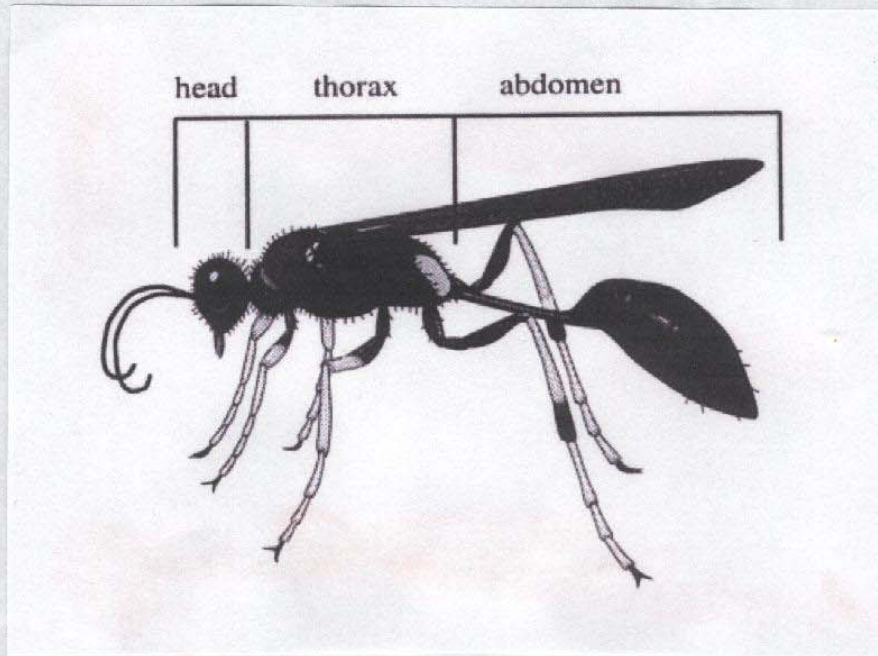























An insect has a special hard shell on the

outside of its body called an exoskeleton.





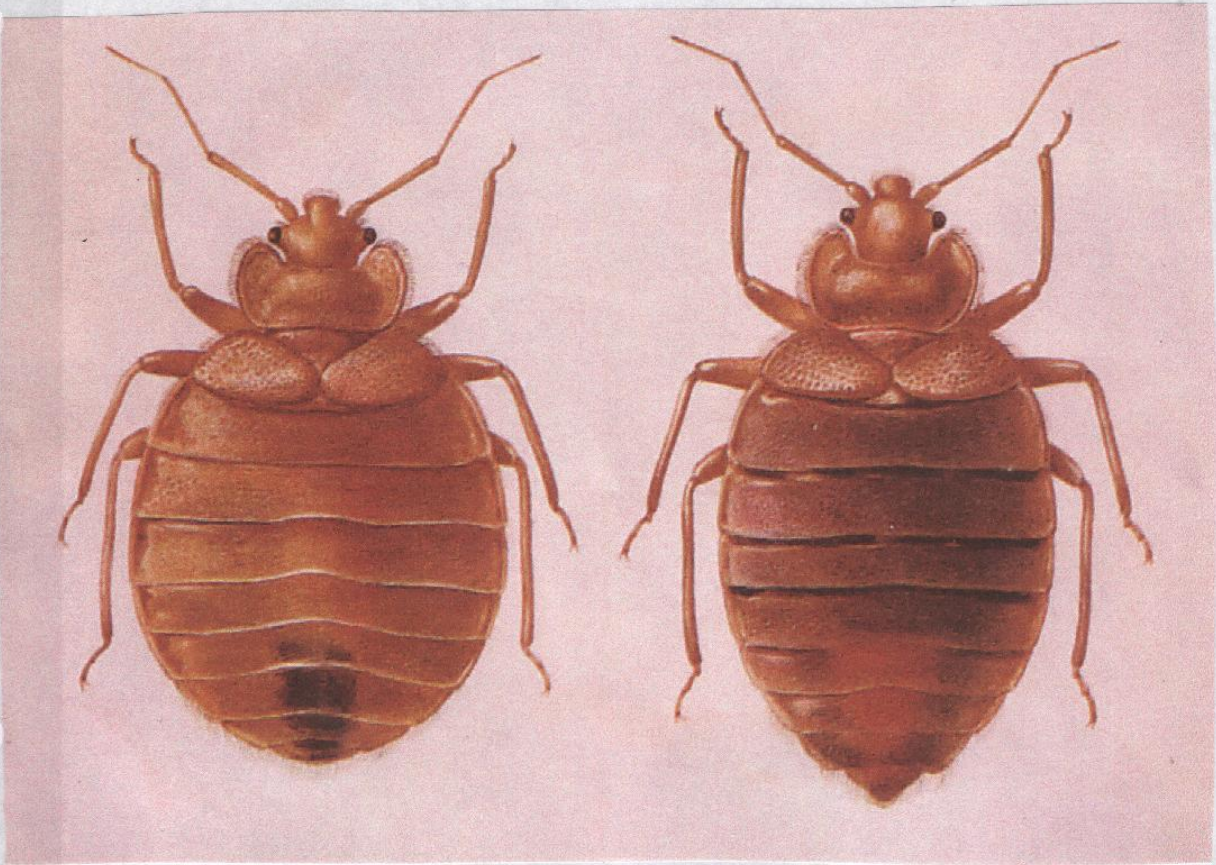




**3**




  
 An insect's body has three parts which are the












  
 head, the middle called the thorax, and an abdomen.









All



insects have



six



legs



good



for



either



jumping,



climbing,



grabbing,



running,

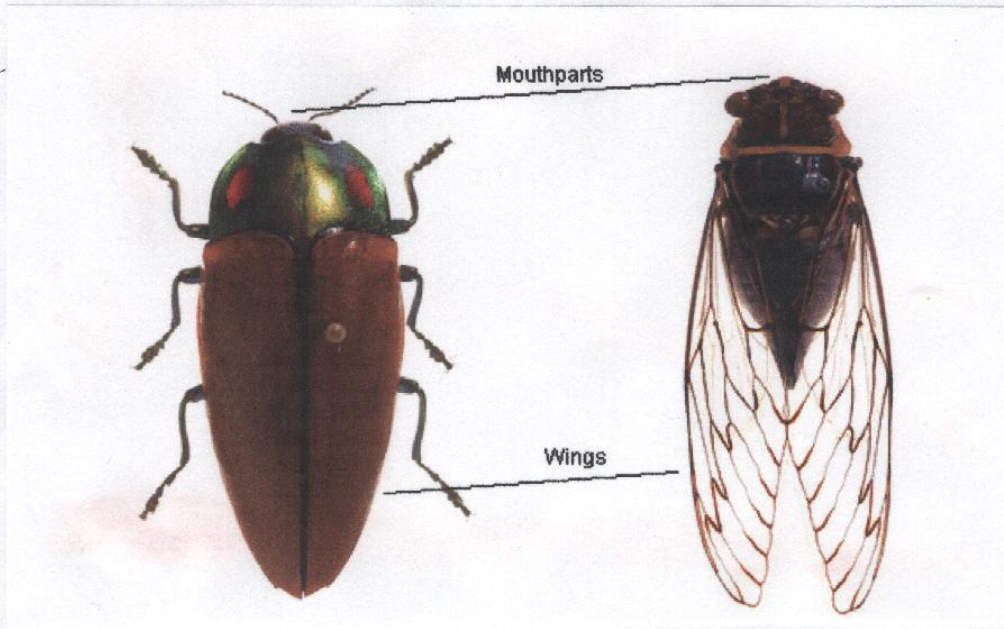









or

















swimming.





 Most  insects have **2**  or **4**  wings  but  all  of

 the  wings  are not  the  same.  Some  are  used

 for flying  and  some  are  used  for protection.





Insects have

2

two



different



types

>



of eyes.



The



insect's



simple



eyes



are



called ocelli



and



sense



light.



Their



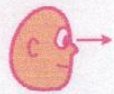
larger,



compound



eyes



see objects



and



their



movement.





An insect has two feelers or antennae and they use them for touch, taste, and smell.





Insects



live



everywhere!



You



find



them



in



the



air,



on



the



ground,



in



the



water,



and



even



in



your

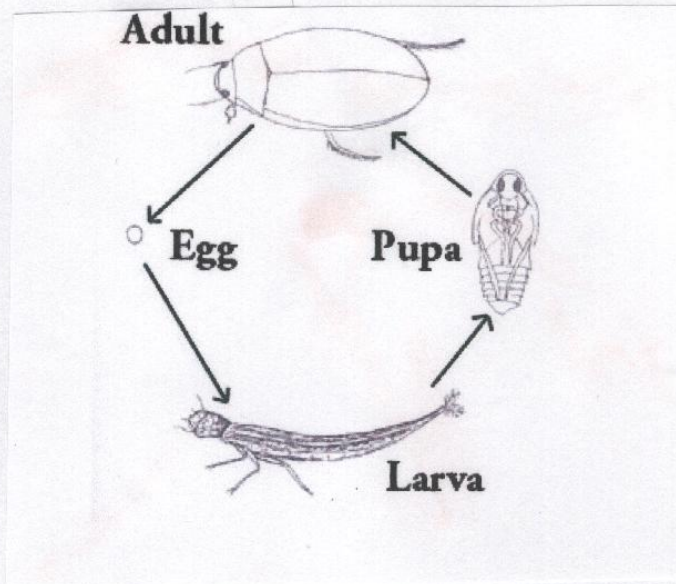


house.









All



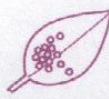
insects



hatch



from



eggs



and



go



through



a



change



from



egg



to



adult.



This



change



is



called



metamorphosis.







# Life Science

## Insects

**LS1.1.4 Identify external features common to animals.**

- 4e. Recognize wings**
- 4f. Recognize antennae**

**LS1.1.6 Associate the external features of animals with their functions.**

- 6b. Identify that wings are used to fly.**

**LS1.3.3 Recognize the life cycle of a familiar plant or animal.**

- 3b. Recognize a life cycle for an organism that undergoes metamorphosis.**

**A Science Investigation includes 4 components:**

- Observing/questioning
- Planning
- Conducting
- Analyzing

**Observing/questioning**

- Make predictions on how many types of insects are in the world today.
- What kinds of insects live in Rhode Island.
- What type of weather do most insects prefer.
- What do all insects have in common.
- Where do insects live
- Explain that insects are non-threatening as long as you leave them alone.
- Advise students to be respectful of the insects that will be living in our classroom.



### **Planning**

- Students will help set up an insect science center.
- A collection of pictures will be displayed in this area.
- Students can bring in insects they find at home.
  1. The insects need to be in a container.
  2. The container needs air to allow the insect to breathe.
  3. The environment in the container needs to suite the insect. (such as dirt for an ant or leaves for a grasshopper.
- Each student will be given a data chart to collect data on the variety of insects.

### **Conducting**

- Each student will label his/her container
- Each student will make sure food/water is supplied to the insect.
- Air holes will be required for each container.
- Data on the habits and life of the insect will be gathered by each student.
- Each student will drawn and label his/her insect





























### **Analyzing**

- Students will check if original predictions were accurate.
- A discussion about the life expectancy of the insect in a container verses out in the open will commence.
- A summary of all data will be collected and posted.
- Students can openly talk about how important accurate data is to an experiment.

### **Adaptations for students with significant challenges**

- This lesson allows all students to participate.
- Students with challenges can use picture cards to take data.
- Students can be taken to the school yard to find different insects.
- Allow the students an opportunity to see many types of insects on the computer or videos.



 <p>1 wing</p>	 <p>2 wings</p>	 <p>3 wings</p>			
 <p>4 wings</p>	 <p>1 antennae</p>	 <p>2 antennae</p>			
 <p>1 leg</p>	 <p>2 legs</p>	 <p>3 legs</p>	 <p>4 legs</p>		
 <p>5 legs</p>	 <p>6 legs</p>	 <p>hard</p>	 <p>shell</p>	 <p>head</p>	
 <p>middle or thorax</p>	 <p>thorax</p>				
 <p>flying</p>	 <p>crawling</p>	 <p>still</p>	 <p>1 eye</p>	 <p>2 eyes</p>	
 <p>eating</p>	 <p>drinking</p>	 <p>eggs</p>	 <p>leaves</p>	 <p>grass</p>	 <p>dirt</p>









month / day / year

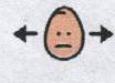
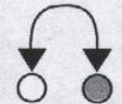
Name: \_\_\_\_\_

Date: \_\_\_\_\_

1



1. All insects are green?

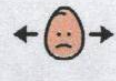
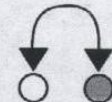


Yes or no

2



2. Insects have a hard shell?

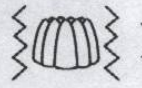


yes or no

3



6



3. Insects have six sets of eyes?



yes or no

4



4. Insects only live in the dirt?



yes or no

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