

sects... cont. *Classified by # and structure of body parts

groups of Arthropods (~~Arthropoda~~) *2 pairs of antennae, 2-3 body segments +

1. Sub Phylum - Crustaceans → Crayfish, Shrimp, lobsters, crab (invertebrates)

a. Cephalothorax - head + abdomen w/ Carapace; most organs here

b. abdomen - @ posterior

c. mandible - mouthpart for chewing + grinding

d. chelipeds - modified legs w/ claws for grabbing + crunching

2. Sub Phylum - Chelicerata - spiders (Note: NOT an insect!), ticks, horse shoe crab

a. 8 legs, mouthparts: Chelicerae - "fangs" and pedipalps - grabbing

b. Spiders belong to the class - Arachnida

c. scorpions - pedipalps w/ claws and a stinger, Southern U.S.

d. mites + ticks - small, parasitic, chelicerae + pedipalps modified for digging +

3. Sub Phylum - Uniramia - includes insects, centipedes, millipedes, ^{sucking} jaws

Centipede - few to 100 pairs of legs, mouth - venomous jaws - pair of antennae

millipede - each body segment has 2 pairs of legs - most numerous + diverse group

1. Insects (Class Insecta) make up 3/4 (75%) of animals!

1. What is an insect? have jaws, 1 pair of antennae

1. head

2. thorax

3. abdomen

body

4. 3 pairs of legs on ?

5. 1 pair antennae

6. Compound eyes

7. 2 pairs wings

8. tracheal tubes

9

2. Response ears, hair on legs, compound eyes, chemoreceptors, brain, antennae,

3. Movement - legs - walking/grabbing; wings for flying

Stage! Metamorphosis → complete - larvae do not look like adult + feed different

larvae, pupa, adult → incomplete - nymph stage looks like adult, no wings or sex organs

B. Insects and humans (how insects fit into the world)

negative - termites, agriculture, + disease

positive - pollination → food!; produce goods, food in some countries

C. Insect communication - use sound, visual chemical signals, most involves finding a mate

Ants: the "round dance" - food is close to hive

honeybees: the "waggle dance" - food is far away from hive

mainly aquatic

Carnivores
detritivores
herbivores

Digest
a Hopper!

Chapter 2arthropods And Echinoderms Section Review Answer Key

HSP



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Resources for Teaching Middle School Science Smithsonian Institution, National Academy of Engineering, National Science Resources Center of the National Academy of Sciences, Institute of Medicine, 1998-04-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them Resources for Teaching Middle School Science developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of Resources for Teaching Elementary School Science the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering information The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide The criteria reflect and incorporate goals and principles of the National Science Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science and teaching directories and guides to science trade books and periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind Resources for Teaching Middle School Science will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum specialists advocates of hands on science teaching and concerned parents *Science Insights* ,1999 Prentice Hall Science Explorer: Teacher's ed ,2005 **Harcourt Science** HSP,1999-04 Adopted by Rowan Salisbury Schools *Chapter Resource 31 Echinoderms/Invertebrates Biology* Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2004 Freshwater and Marine Aquarium ,2000 **Glencoe Science** ,2002 **Life Science, Grades 6-7** Tony Wright,1994-07-13 **Prentice Hall Exploring Life Science** Anthea Maton,1997 **Holt Science and Technology** Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2001 **Parade**

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