

SECTION 2.1 TEN MILLION DESIGNS

1. What 3 characteristics does an insect have:

1. _____
2. _____
3. _____

Define the following terms:

2. Exoskeleton: _____

3. Vertebrate: _____

4. Invertebrate: _____

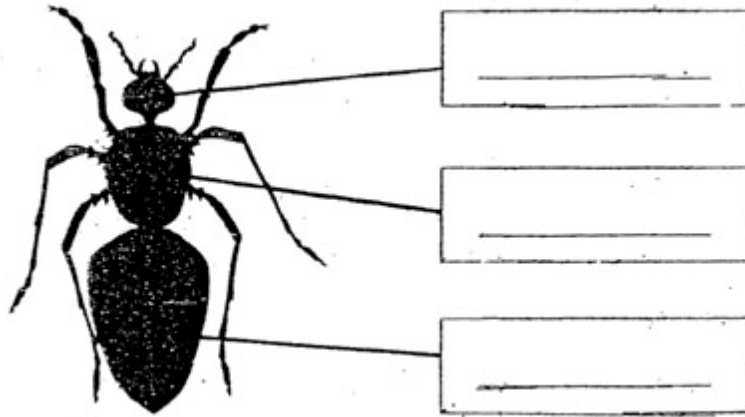
5. Molting: _____

6. Ovipositor: _____

7. Spiracles: _____

Name: _____

8. Label the 3 parts of an insect below:



SECTION 2.2 AN INSECT ZOO

9. What do scientists call a caterpillar? _____

10. What does a caterpillar become before it turns into an adult? _____

11. What are the differences between a butterfly and a moth? _____

12. What does the painted lady caterpillar eat? _____

What states can you find them? _____

Name: _____

13. What does the woolly bear caterpillar eat? _____
after it goes into the Pupa stage, what kind of butterfly is it? _____

14. How wide is the monarch butterfly's wings? _____

What does the Monarch butterfly caterpillar eat? _____

15. In what do webworm caterpillars live in? _____

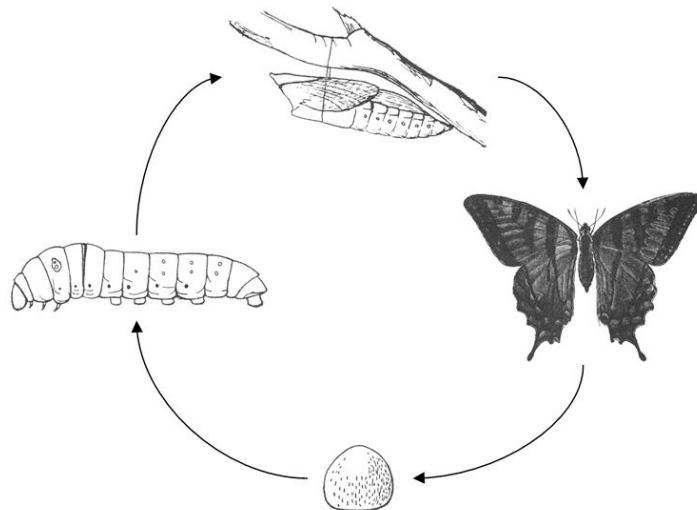
How long are they in their cocoons? _____

16. What does the cabbage butterfly caterpillar look like? _____

_____ What does the
caterpillar eat? _____

SECTION 2.3 INSECT LIFECYCLES

17. Label the stages of Metamorphosis below:



Name: _____

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18. Name 5 insects that go through complete metamorphosis: _____

Define the following terms:

19. Metamorphosis: _____

20. larva: _____

21. chrysalis: _____

22. cocoon: _____

23. pupa: _____

24. hypothesis: _____

25. experiment: _____

26. state the law of biogenesis: " _____

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SECTION 2.4 DESIGNER HEADS

27. sensilla: _____

28. compound eyes: _____

29. Name the four kinds of insect mouths and at least one insect for each:

Insect	Kind of Mouth

SECTION 2.5 DESIGNED FOR MOTION

30. Why is a spider not an insect? _____

31. To which section of its body are an insect's wings attached? _____

32. Why are wings important to insects? _____

Name: _____

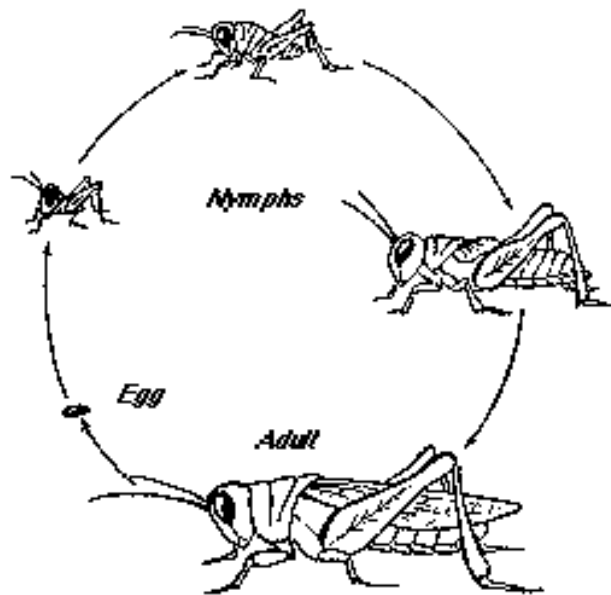
33. Name two insects which migrate? _____

SECTION 2.6 CRICKETS & GRASSHOPPERS

34. Give three ways of telling the difference between a cricket and a grasshopper: _____

35. How can you tell a male cricket from a female cricket? _____

36. Label the 3 stages of incomplete metamorphosis:



SECTION 2.7 HOW INSECTS DEFEND THEMSELVES

37. Complete the table below, giving an insect's name for each method of protection given:

Method of Protection	Insect
Bad taste	
camouflage	
bad odor	
jumping	
chemical defense	

38. Name two insects that defend themselves with parts of their body:

39. How does the viceroy butterfly escape its enemies?

40. What is the defense of the swallowtail caterpillar?

Name: _____

Define these words:

41. predator: _____

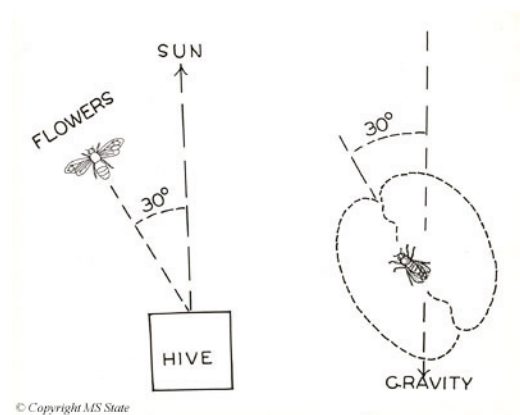
42. camouflage: _____

43. mimicry: _____

SECTION 2.8 HOW INSECTS COMMUNICATE

44. Name 5 ways that insects communicate:

45. How do honeybees tell their fellow bees where to find a good food supply? _____



SECTION 2.9 WHERE INSECTS LIVE

46. Complete the table below, describing where the insect lives, and how and where each insect lays its eggs:

Insect	Where the Insect lives	How & where they lay eggs
monarch butterfly	_____ _____ _____	_____ _____ _____
acorn weevils	_____ _____ _____	_____ _____ _____
burying beetle	_____ _____ _____	_____ _____ _____
parasitic wasps	_____ _____ _____	_____ _____ _____
lice	_____ _____ _____	_____ _____ _____
praying mantis	_____ _____ _____	_____ _____ _____
mosquitos	_____ _____ _____	_____ _____ _____
ladybug	_____ _____ _____	_____ _____ _____

47. What does 'hibernate' mean? _____

SECTION 2.10 DWELLING OF SOCIAL INSECTS

48. Name three social insects: _____

49. What substance do bees use to make the cells of their hives? _____

50. How do wasps make their nests? _____

51. Through what kind of metamorphosis do honeybees go through?

label the stages below:

