

BIOLOGY ^{gen.} 9-10

COMPLETE THE FOLLOWING QUESTION SHEETS:

pgs. 88-93 MATING & PARENTING

pgs 94-97 MATING & PARENTING

pgs. 98-103 BIRDS SING

pgs 98-105 MATING & PARENTING

pgs. 106-113 MATING & PARENTING

pgs 114-123 MATING & PARENTING

pgs. 124-131 CHIMPS

pgs 132-137 BIRDS NAVIGATION ...

pgs. 138-144 LIONS ...

1.) LINED PAPER

2.) Due FIRST DAY BACK

Science ^{7,8} : Animal Mating and Parenting; SPIDERS, FIREFLIES (30 pts)
pgs. 88-93

Answer w/ complete sentences on a separate sheet of lined paper.

1.) What two crucial challenges in life do animals face?

2.) 3.) What must animals do in order to survive? (6 THINGS)

4.) What must happen in order for animals to reproduce?

5.) 6.) What are different ways for animals to find mates?

7.) When does parenting begin?

8.) What must parents do in order for their young to survive?

9.) Why are there various types of behavior in the spider's courtship routine?

10.) What is the courting routine of the male running spider?

11.) What is the courting routine of the male fly trap spider?

12.) Why is the male garden spider careful approaching a female garden spider?

13.) How do male and female fireflies find each other so they can mate?

(over)

14.) How does the large male Genji firefly blink?

15.) Why does the male's light become dimmer as he approaches the female?

Science ⁷⁻⁸: Animal mating and parenting; moths, crickets (20 pts)
Answer w/ complete sentences on a separate sheet of lined paper. _{pgs. 94-97}

- 1) How do male moths find females when in the dark?
- 2) What chemical do female moths release?
- 3) Why would a male moth that follows the pheromone be led to a mature female of his own species?
- 4) With what are the strands of the male moth covered?
- 5) Why do male crickets trill?
- 6) What kind of song does a trespassing male get?
What kind of song does a mature female get?
- 7) How does the female cricket identify the male cricket of her own species?
- 8) Why don't all crickets sing at the same time?
- 9) Where are the crickets "ears" located?
- 10) How does a cricket sing?

BIOLOGY ANIMAL LIFE pgs. 98-103 WHY DO BIRDS SING, BOWER (20pts)

Answer w/ complete sentences. BIRDS BUILD BOWERS + CRANES DANCE?

- 1.) WHAT IS THE DIFFERENCE BETWEEN A BIRD CALL AND A BIRD SONG?
- 2.) WHAT DOES THE BIRD SONG SAY ABOUT THE MALES?
- 3.) HOW MANY MELODIES DOES THE BROWN THRASHER SING?
- 4.) WHAT ARE THE TWO PURPOSES OF A MALE'S BIRD SONGS?
- 5.) WHEN DO THE ORIENTAL GREAT NEED WARBLERS RETURN FROM THEIR MIGRATION? WHAT DOES SHE LOOK FOR?
- 6.) DESCRIBE THE BOWER OF A BOWER BIRD: WHAT IS THE FUNCTION OF A BOWER BIRD?
- 7.) WHICH BOWER IS YOUR FAVORITE? WHY?
- 8.) DESCRIBE THE JAPANESE CRANES. (clue 5, 22, 50)
- 9.) WHICH COURTSHIP RITUAL IS YOUR FAVORITE? WHY?
- 10.) WHAT MAKES SCIENTIFIC STUDY SCIENTIFIC?

Science ⁷⁻⁸: Animal Mating + Parenting, ^{pgs 98-105} BIRDS, BOWERBIRDS, CRANES, MOLES (30 pts)

Answer w/ complete sentences on a separate sheet of lined paper.

- 1.) What is a bird call? What is a bird song?
- 2.) What does the male's tune tell about him?
- 3.) How many melodies can a brown thrasher sing?
- 4.) Completion: No matter how many songs he has, a male's singing always serves two purposes...
- 5.) How does the bowerbird create his own territory?
- 6.) What is the use of a bower?
- 7.) What kind of bower does the satin bowerbird build?
- 8.) What kind of bower does the MacGregor's bowerbird build?
- 9.) What's so amazing about Japanese cranes ⁴? (4 reasons)
- 10.) How do crested grebes court?
- 11.) How do jackdaws court?
- 12.) Where do moles spend most of their lives?

(over)

3.) How does a male mole find a female mole?

4.) What does the male mole do once he has mated?

5.) Completion: If a mole finds more food than it can eat, it...

Science⁷⁻⁸; Animal Mating and Parenting BK Horns pgs. 106-113 60 pt
Answer w/ complete sentences on a separate sheet of lined paper.
CRABS, ALLIGATORS, PENGUINS

1.) WHY DO BIGHORN SHEEP BUTT HEADS?

2.) HOW OLD MUST A RAM BE TO CHALLENGE OLDER MALES HEAD ON?

3.) COMPLETION: "A RAM'S SKULL GROWS ALONG WITH HIS HORNS. THE SKULL IS..."

4.) WHAT IS THE EASY DIFFERENCE TO SEE BETWEEN MALE AND FEMALE FIDDLER CRABS? WHAT DOES THE FIDDLER CRAB DO WITH THE OVERGROWN CLAW?

5.) HOW DEEP IS THE BURROW OF A FIDDLER CRAB? HOW DOES THE MALE FIDDLER CRAB ATTRACT A MATE WHEN THE TIDE IS OUT DURING THE NIGHT?

6.) HOW DO ADULT ALLIGATORS SIGNAL THAT THEY ARE READY TO MATE? HOW DO ALLIGATORS GREET EACH OTHER BEFORE MATING?

7.) WHY DOES THE MOTHER ALLIGATOR RIP OPEN THE NEST MOUND? HOW DOES THE MOTHER TRANSPORT HER YOUNG FROM THE NEST MOUND TO THE WATER? (2 WAYS)

(over)

8.) WHAT IS A CRÈCHE? WHY DO PENGUIN CHICKS COME WHEN CALLED BY THEIR PARENTS?

9.) WHAT TWO THINGS KILL CHICKS THAT ARE ALONE? WHAT IS KRILL?

10.) WHEN DO ADÉLIE PENGUINS LAY THEIR EGGS?

Science⁷⁻⁸; Animal Mating + Parenting: Cuckoo, Hebe, pgs 114-123 (20 pts)
Flies, Salmon, Grunion
Answer w/ complete sentences on a separate sheet of lined paper.

- 1.) WHAT ARE BROOD PARASITES?
- 2.) WHAT DOES THE FEMALE CUCKOO DO ONCE THE PARENTS LEAVE THEIR NEST?
- 3.) WHAT DOES THE BLIND CUCKOO CHICK DO ONCE IT HAS HATCHED?
- 4.) WHAT IS COOPERATIVE BREEDING?
- 5.) WHY ARE THE COOPERATIVE BIRDS HELPING?
- 6.) WHY MUST A FEMALE HOVER FLY BE CAREFUL WHEN CHOOSING AN APHID COLONY?
- 7.) WHAT NAVIGATIONAL AIDS DOES THE SALMON USE TO RETURN TO ITS BIRTHPLACE? WHAT ARE FINGERLINGS?
- 8.) WHY DO GRUNION BURY THEIR EGGS?
- 9.) WHAT OTHER ANIMALS LIMIT THEIR BREEDING TO THE SPRING TIDES OF THE MATING SEASON?
- 10.) WHERE DO GLOBEFISH LAY THEIR EGGS?

Science^{7.8}; Animal Social Behavior: CHIMPANZEE, 1975, pp 124-131 (30 pts)
Answer w/ complete sentences on a separate sheet of lined paper.

- 1) Completion: "Bees build hives, birds form flocks..."
- 2.) How do social animals communicate among themselves? (3 ways)
- 3.) What is the social structure of ants?
- 4.) What is the social structure of a pride of lions?
- 5.) How do chimpanzees communicate among themselves? How do ants communicate?
- 6.) What size is small/is large for an ant colony?
- 7.) What do soldier ants do? the queen?
- 8.) What may trigger army ants to travel and rest?
- 9.) What is the typical day of a worker? (7 things)
- 10.) What is planing?
- 11.) What are drones?

(over)

12.) Where do the drones go when they leave the hive every afternoon?

13.) When do drones die?

14.) Completion: When the caged queen bee is flown through the drones, the drones...

15.) What do drones do in the hive?

Science⁷⁻⁸; Animal Social Behavior; Birds: V, Navigate, Migrate pgs 132-137 (25pts)
Answer w/ complete sentences on a separate sheet of lined paper.

- 1.) Why do birds fly in flocks? (2 reasons)
- 2.) How do birds save energy when flying in V-formation?
- 3.) Where is flying the most difficult in a V-formation?
- 4.) Completion: By flying to the side of the bird in ...
- 5.) Completion: Flocks of bulbuls alternately ...
- 6.) Define: instinct
- 7.) WHAT KIND OF BIRD WAS USED TO PROVE THAT BIRDS USE THE SUN TO NAVIGATE?
- 8.) WHAT 4 THINGS DO BIRDS USE TO NAVIGATE WHILE MIGRATING?
- 9.) HOW FAR DO ARCTIC TERNS MIGRATE EACH YEAR?
- 10.) Completion: Some small birds fly nonstop for ...
- 11.) Define: planetarium -

(over)

2.) Which factor was the variable in the pigeon & earth's magnetic field experiment?

3.) For all you do this point is for you!

Science⁷⁻⁸, Animal Social Behavior; Lions, Chimps, monkeys pgs. 138-144
Answer w/ complete sentences on a separate sheet of lined paper. (20 pts)

- 1.) WHAT ARE PRIDES? DESCRIBE A TYPICAL LION PRIDE?
- 2.) WHO DOES MOST OF THE HUNTING IN A PRIDE?
- 3.) WHAT MAKES A MALE LION APPEAR LARGER?
- 4.) WHAT MIGHT A NEW MALE LEADER OF A PRIDE DO TO SOME OF THE CUBS? WHY?
- 5.) WHO RAISED THE CUBS OF THE PRIDE?
- 6.) WHAT ARE PRIMATES?
- 7.) WHAT DOES MONOGAMOUS MEAN? WHAT IS A MATRIARCHY?
- 8.) WHAT IS A PATRIARCHY?
- 9.) HOW DO CHIMPANZEES COMMUNICATE TO EACH OTHER?
- 10.) WHAT ACTIVITIES HAVE THE JAPANESE-MACAQUE TAUGHT ONE ANOTHER?