

Name _____ Date _____ Hour _____

ACTIVITY 11.1

UNIT WORD SEARCH

albumen
broiler
candling
chalazae

disease
embryo
hatchery
incubator

layer
membranes
pullet
sanitation

shell
yolk

N O I T A T I N A S N A M I T O B H B A O G
B V F I V U Q N K Y S L S R Y R Y R E I X G
R P Y N F J A Q I Z M B P K X M O R M N Q F
W O U U F O Y W S B P U U N K I O Z B T M J
T E T H C R Q O H K J M T U L B O R X M G G
K I L A Q V R R G A L E T E S H E L L Z E Y
N H K Y B F I B Q D T N R Q D Y S D H P L S
E U G F V U E J G M P C E S A E S I D M B E
T S L L Z F C N N T N B H L G Z U R L L R N
M T N Y Q I I N N E V C U E Q E B D F Z N A
I C A N O L J E I L I E W L R L F W P X K R
X U U S D L J P W L D D J S K Y G R D J C B
D W A N T J K P Q U O H C H A L A Z A E E M
C V A Q Y Q B S O P O G L W P L M G C L B E
V C U F J K S V W H E G J O H F Q M Q E D M

ACTIVITY 11.2

POROSITY OF THE EGG SHELL

Student Materials

- | | |
|---------------|-------------|
| Food coloring | Ice water |
| Egg | Bowl |
| Plastic Cup | Paper Towel |

The eggshell has holes or pores to allow air to pass through the eggshell or the developing chick. This activity will demonstrate the porosity of the eggshell.

Procedure

1. Put 1 cup of ice water into the plastic cup.
2. Add food coloring to the ice water.
3. Let the egg set in the solution for three minutes.
4. Remove the egg and dry it with a paper towel.
5. Carefully crack the egg. Observe the dots of color on the inside of the shell.
6. Pour the contents of the eggshell into the bowl.
7. Examine the remaining eggshell with the naked eye and a microscope.

Describe the color on the inside of the egg shell. Why is the color concentrated at the large end of the egg?

Describe the eggshell when viewed through the microscope.

ACTIVITY 11.3

EGG SIZING

Student Materials

- 5 eggs
- Digital Scales
- Pencil
- Marker

Egg size usually varies depending on the age of the hen that produced them. Older hens usually produce larger eggs. Eggs are sorted by weight to determine sizes. There are 5 sizes – Jumbo, Extra Large, Large, Medium, Small and Pee Wee. Below is a chart with the weight standards for sizing eggs.

Size	Minimum Weight Per Dozen	Approximate Individual Egg Weight
Jumbo	30 oz	2.5 oz
Extra Large	27 oz	2.2 oz
Large	24 oz	2 oz
Medium	21 oz	1.7 oz
Small	18 oz	1.5 oz
Pee Wee	15 oz	1.2 oz

1. Gather materials.
2. Label eggs A, B, C, D and E.
3. Weigh each egg and write the data in chart below. Complete the chart by determining the size of each egg.

Egg	Weight	Size
A		
B		
C		
D		
E		

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ACTIVITY 11.4

POULTRY INDUSTRY HIEROGLYPHICS

Student Materials

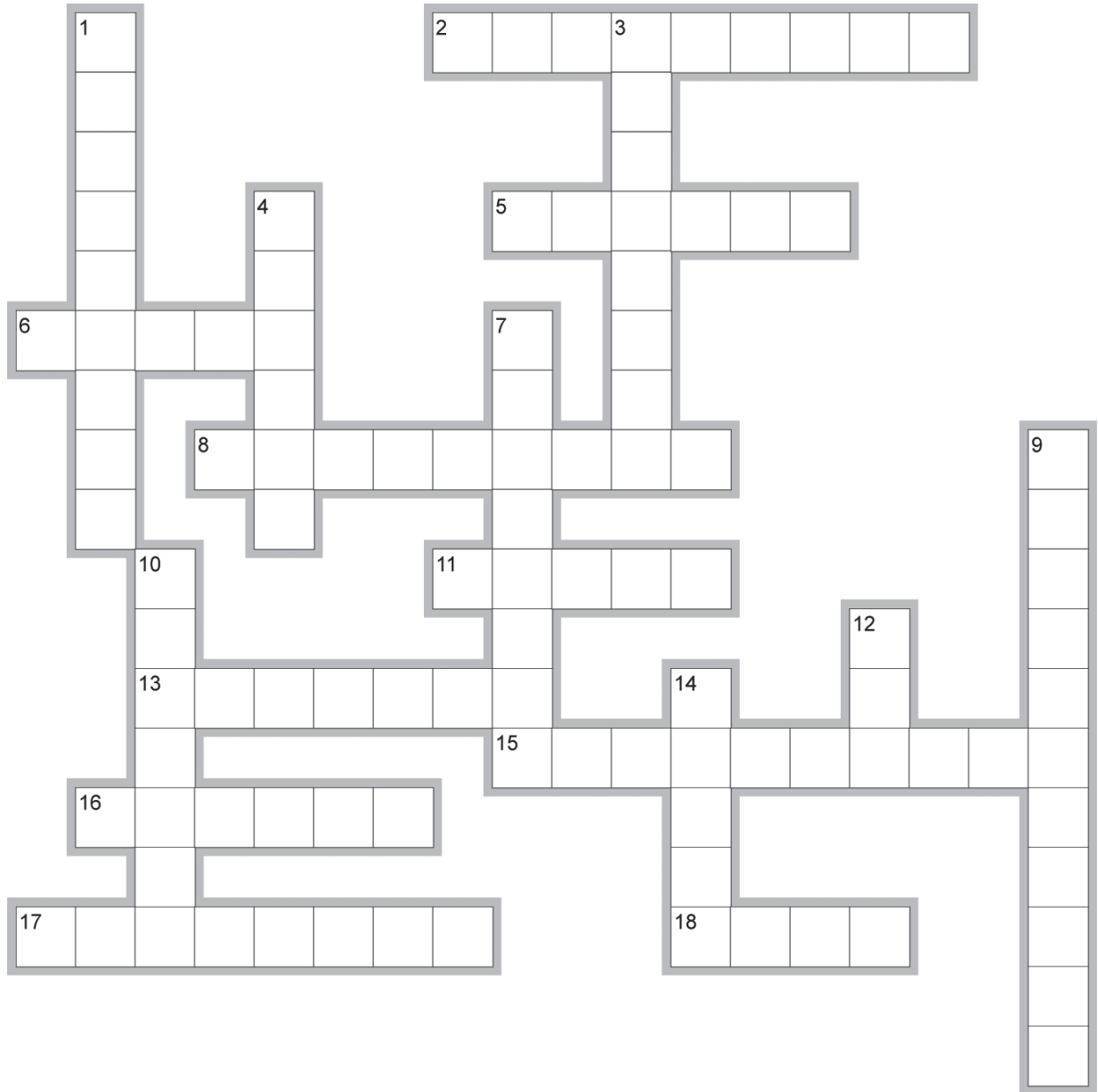
Colored Pencils

In the time of the Egyptians, hieroglyphics or drawings were used as a form of communication. One illustration may represent a complete story or part of a story. For each stage of the poultry industry draw an icon representing the stage. Be creative in the design of your icons.

Broiler Production	
Pullet Production	
Egg Production	
Meat Production	

ACTIVITY 11.5

UNIT REVIEW CROSSWORD



EclipseCrossword.com

Across

2. disease that can cause paralysis and soft-shelled eggs
5. laying hen that has not laid her first egg
6. hens raised to produce eggs
8. Eggs have two ____ beneath the shell.
11. hard protective covering made of calcium carbonate
13. six to eight week old chicken; about 4 lbs.
15. reduces the risk of disease
16. fertilized egg
17. process that detects dark spots inside the egg or cracks
18. food source for the embryo

Down

1. device that controls the temperature and humidity while hatching eggs
3. two cords that hold the yolk in the center of the egg
4. meat production increasing in the U.S.
7. begins to form on day 8
9. Broilers are raised in ____.
10. liquid in which the embryo develops
12. Chicken contains less ____ than red meat.
14. ____ percent of production goes to egg products.