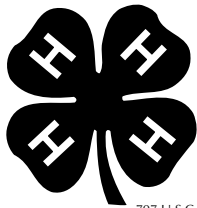


Beginning of LIFE

Record Book

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Sciences, Virginia Tech*



707 U.S.C. 18



This Book Belongs To:

Name _____

School _____

Teacher _____

Extension Agent _____

Eggs Set In Incubator

Date _____

Number of eggs set _____ Number hatched _____

Percent fertile _____ Percent hatched _____

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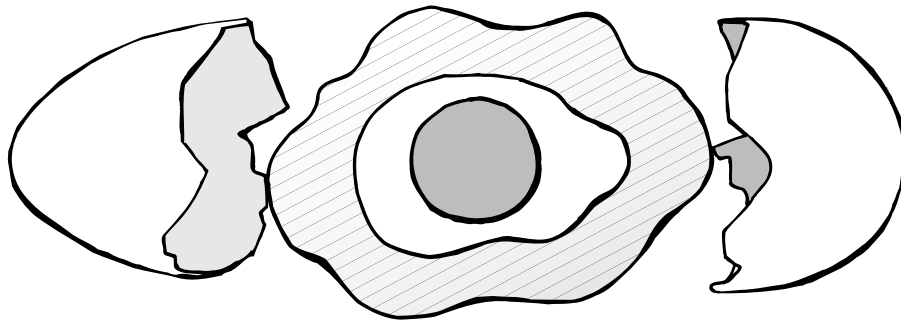


VIRGINIA STATE UNIVERSITY

I. PARTS OF THE EGG:

1. What is an egg? _____

2. Label the six parts of the egg in this drawing:

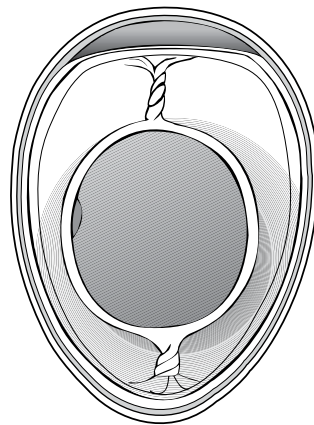


3. What is the purpose of each part of the egg listed below?

Shell

Germinal disc

Yolk



Albumen

4. NUTRITIONALLY, why are the shell, yolk, and white important to the developing chick?

Shell _____

Yolk _____

White _____

II. INCUBATOR AND ITS OPERATION:

- 1. What is the purpose of the incubator? How does it replace the mother hen? _____

- 2. What is the proper temperature for the incubator? _____
- 3. What happens if the temperature is too high or too low? _____

- 4. Why is it necessary to keep water in the incubator? What happens to the developing chick if you forget to keep water in the incubator? _____

- 5. Why is it necessary to turn the eggs? At what day of incubation do you stop turning the chicken egg? Why? _____

III. DAILY THERMOMETER READING

- 1. What are the units on the thermometer? _____
- 2. Is the thermometer Fahrenheit or Celsius? _____

IV. INDIVIDUAL EGG PROGRESS

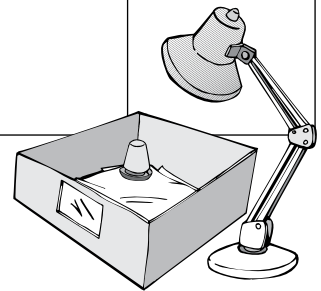
Number each egg on the air-cell end of the egg. Keep a record of what happens to each egg.

Egg number	1	2	3	4	5	6	7	8	9	10	11	12
Fertile did not pip												
Fertile pipped												
Hatched												
Died												

V. IMPORTANT STAGES OF DEVELOPMENT:

Keep and attach a record of the changes that occur in the embryo each day. If you can candle the eggs, how does the appearance inside the egg change each day? (see sample format)

Doug's 4-H EMBRYOLOGY Calendar						
				Thursday 1	Friday 2	Saturday 3
Sunday 4	Monday 5	Tuesday 6	Wednesday 7	Thursday 8	Friday 9	Saturday 10
Sunday 11	Monday 12	Tuesday 13	Wednesday 14	Thursday 15	Friday 16	Saturday 17
Sunday 18	Monday 19	Tuesday 20	Wednesday 21			



VI. BROODING OF CHICKS:

1. Three principles to follow in brooding chicks are that the chicks must be kept:

- a. _____
- b. _____
- c. _____

2. What is to be your heat source for the brooder? _____

3. When you put the chicks in the brooder, what should the temperature be? _____

4. How do you know if the chicks are too cold? _____

6. What are you feeding your chicks? Why? _____

7. Describe what changes you observe in the chicks each day. What did you expect? What surprised you? _____

VII. PROJECT REPORT:

Write and attach a report on what you have done in your chick incubation project. You may want to include pictures or drawings to illustrate what you observed. Some of the things you may want to write about in your report are:

- The kinds of eggs you set (chicken, quail) and where you got your eggs.
- Whether any embryos died during incubation and what you think caused them to die.
- Anything unusual that happened during the course of the project.