## 4-H Embryology in the Classroom Project Poster One – Stages of Embryonic Development



## Chicken Embryo Development



Hatching eggs.

Infertile, unincubated egg. Fertile, unincubated egg.

Blastodisc located on top of yolk appears irregular in shape.



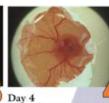
"Donut-shape" greatly regular in shape and has a enlarged and embryo lies "donut-appearance." within the donut ring.



Blood appears as "blood islets" in outer ring of developing embryo.



Day 3 Circulatory system well developed. Formation of appendages.



Notice brain to body size relationship.



Day 5 Brain continues to develop Wing development rapid. at rapid rate.



Day 6 Development of egg tooth tip of beak. Eyes very begins.



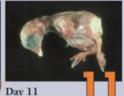
Egg tooth seen on conspicuous.



Day 8 Day 9 Feather tracts seen on the Beginning formation back. Wings, feet, toes well of feathers. developed.



Day 10 Down feathers appear. Hardening of beak and egg tooth begins.



Eyelids have overgrown eves.



Calcification of bone started. Toenails and down feathers on neck, thighs and wings present.



Day 13 0 Appearance of scales on legs. Comb and wattles present.



Day 14 10 Embryo acquires a more chick-like appearance.



Day 15-19 Embryo grows rapidly assuming hatching position with the head under the right wing and beak toward the air cell. Remaining yolk sac begins entering body cavity.



Day 20 Chick begins pipping through shell.



Chicks hatch and dry.

Poster One - Stages of Embryonic Development (Alabama Cooperative Extension) Granger, A. (July, 2015)