

# 4-H Youth Development Embryology Teacher Survey 2012 Grades 3-12

## Embryology Participation Information

**We want to know how well 4-H Embryology works with your class. We are asking you to answer the following questions about the 4-H Embryology Program. It should take about 15 minutes of your time to complete the survey. Thank you for your input in helping to evaluate this program.**



**1. Teacher name:**

**2. School Name:**

**3. County Location:**

**4. How many students did you reach through embryology this year?**

Number of Students

**5. Grade level I teach:**

**6. The number of years I have taught the 4-H Embryology Program:**

- 1
- 2
- 3
- 4
- 5+

**7. Please provide information on your participation in 4-H Embryology Teacher Training.**

	Location of Training (County)	Year Training Received
Beginning Training Participation	<input type="text"/>	<input type="text"/>
Advanced Training Participation	<input type="text"/>	<input type="text"/>

# 4-H Youth Development Embryology Teacher Survey 2012 Grades 3-12

## Skills and Abilities Changes

*For the next section, please refer back to the Targeting Life Skills Handout that you received at 4-H Incubation and Embryology Training. The Life Skills were defined and suggestions given as to how they are addressed through the 4-H Embryology Project.*

**8. Because of participation in this program, my students were able to demonstrate the following Life Skills: (1=Not at all; 2=Sometimes; 3=Usually; 4=Always) Please indicate skill levels of your students both before and then after the program using the two sets of columns.**

	Before participating				After participating			
	1	2	3	4	1	2	3	4
Critical thinking	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Problem solving	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Decision-making	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Personal safety	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Healthy lifestyle choices	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Self-responsibility	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Teamwork	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sharing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Concern for others	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Accepting differences	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cooperation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Resiliency	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Keep records	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wise us of resources	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Planning/organizing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

*For the next section, please refer back to the 4-H Science Abilities Handout that you received at 4-H Incubation and Embryology Training. The Science Abilities were defined and suggestions given as to how they are addressed through the 4-H Embryology Project.*

# 4-H Youth Development Embryology Teacher Survey 2012 Grades 3-12

**9. Because of participation in this program, my students were able to demonstrate the following Science Abilities: (1=Not at all; 2=Sometimes; 3=Usually; 4=Always) Please indicate ability levels of your students both before and then after the program using the two sets of columns.**

	<b>Before participating</b>				<b>After participating</b>			
	1	2	3	4	1	2	3	4
Collaborate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Collect data	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Communicate/demonstrate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Compare/contrast	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Evaluate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hypothesize	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Infer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Interpret/analyze/reason	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Measure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Model/graph/use numbers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Observe	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Optimize	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Predict	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Problem solve	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Question	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Summarize	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Troubleshoot	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Use tools	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**10. Reflection Questions for Students: Teacher Instructions: Please ask students to indicate their responses to the following questions with a show of hands and check the corresponding column.**

	<b>Less</b> than 50% of students raise their hands	<b>More</b> than 50% of students raise their hands
Please raise your hand if you would like to do more activities like this in the future.	<input type="radio"/>	<input type="radio"/>
Please raise your hand if you <i>like science</i> .	<input type="radio"/>	<input type="radio"/>
Please raise your hand if you feel <i>you are good at science</i> .	<input type="radio"/>	<input type="radio"/>
Please raise your hand if you feel <i>science is boring</i> .	<input type="radio"/>	<input type="radio"/>
Please raise your hand if you feel <i>science is useful for solving everyday problems</i> .	<input type="radio"/>	<input type="radio"/>

# 4-H Youth Development Embryology Teacher Survey 2012 Grades 3-12

## Embryology Project Questions

**11. What was your egg hatch rate?**

Number of eggs you   
set

Number of chicks   
hatched

**12. Did you candle the eggs?**

- Yes
- No

**13. If yes, how many?**

Number of eggs   
candled

**14. How long were the eggs out of the incubator before candling?**

**15. Did any chicks pip the shells but not hatch?**

- Yes
- No

**16. If yes, how many?**

Number of chicks that   
pipped the shells but  
did not hatch?

**17. Did you open any eggs?**

- Yes
- No

**18. Did you have an egg turner?**

- Yes
- No

**19. If no, how many times a day, did you turn the eggs?**

Number of times a day   
eggs were turned

**20. If you did not have an egg turner, did you turn the eggs on the weekends?**

- Yes
- No

## 4-H Youth Development Embryology Teacher Survey 2012 Grades 3-12

**21. What was the highest temperature of the incubator while the eggs were set?**

**22. What was the lowest temperature of the incubator while the eggs were set?**

**23. Did you keep water in the incubator for humidity while the eggs were set?**

- Yes  
 No

**24. Please share a success story(ies).**

**25. Based on your experience with this project, would you do it again next year?**

- Yes  
 No

Please explain your answer.

**Thank you again for teaching and offering your input in helping to evaluate this program.**