Name:	5A	or	5B	Date:	SEEDS Y2 L1
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Evidence Set 1 – Handout 2

STOP & THINK: How can we figure out which model gives the best explanation for	
why the fish are dying?	

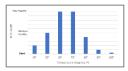
Evidence 1: Fish and Temperature

Questions:

1. What temperature range is ideal for fish?

From:	To:

Fish Health and Temperature

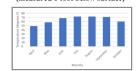


Questions:

1. The temperature is highest in: (circle one)

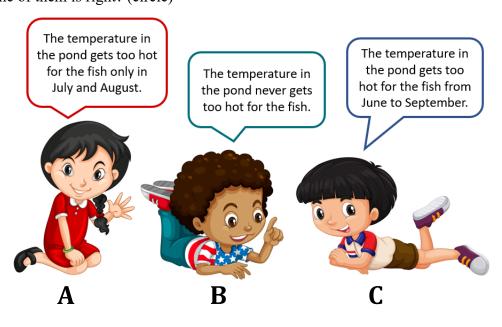
April August October

Passion Puddle Average Water Temperatures (measured 1 foot below surface)



2. Three students each think something different about this evidence.

Which one of them is right? (circle)



Name: 5A	\ or	5B	Date:	SEEDS Y2 L1
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Discuss with your partner:

- What have you learned about why the fish died from this evidence?
- What does this evidence show about the models? Draw a circle around the models this evidence supports and cross out the models that the evidence rules out.
- If the evidence is irrelevant to the model don't do anything.

A B C D

Try to come to agreement on your ideas and your reasons!

Evidence 2: Veterinary Report

Discuss with your partner:

Veterinary Repor

- What have you learned about why the fish died from this evidence?
- What does this evidence show about the models? Draw a circle around the models this evidence supports and cross out the models that the evidence rules out.
- If the evidence is irrelevant to the model don't do anything.

A B C D

Try to come to agreement on your ideas and your reasons!

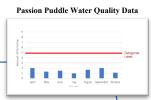
Question:

1. What does "low levels of air in blood" suggest about a possible cause of death?	

Evidence 3: Water Quality

Questions:

1. Based on this evidence, did the fish die from pollution? Yes or No



Discuss with your partner:

- What have you learned about why the fish died from this evidence?
- What does this evidence show about the models? Draw a circle around the models this evidence supports and cross out the models that the evidence rules out.
- If the evidence is irrelevant to the model don't do anything.



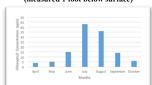
Try to come to agreement on your ideas and your reasons!

Evidence 4: Pond Chlorophyll

Questions:

- 1. Circle all of the conclusions that are <u>correct</u>:
 - a. Conclusion 1: There is the most algae in July
 - b. Conclusion 2: There is the most chlorophyll in July
 - c. Conclusion 3: There is the most chlorophyll in October

Graph to Show the Amount of Chlorophyll in the Pond (measured 1 foot below surface)



Discuss with your partner:

- What have you learned about why the fish died from this evidence?
- What does this evidence show about the models? Draw a circle around the models this evidence supports and cross out the models that the evidence rules out.
- If the evidence is irrelevant to the model don't do anything.



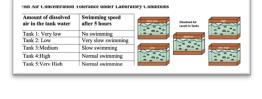
Try to come to agreement on your ideas and your reasons!

Name:	5A	or	5B	Date:	SEEDS Y2 L1
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Evidence 5: Dissolved Air

Questions:

1. How much dissolved air do fish need to be healthy?



Passion Puddle Dissolved Air in Water

Fish Air Concentration Tolerance under Laboratory Conditions

2. Are there any months during the year during which the dissolved air levels are too low for fish to survive?

Yes

No

(measured 1 foot below surface)

Very High

Hadron

Very Len

Very Len

Norm

Agril Many June 1/49 Augus September Consten

3. If you answered YES, which months?

Discuss with your partner:

- What have you learned about why the fish died from this evidence?
- What does this evidence show about the models? Draw a circle around the models this evidence supports and cross out the models that the evidence rules out.
- If the evidence is irrelevant to the model don't do anything.



Try to come to agreement on your ideas and your reasons!

BEFORE YOU GO: Grab a sticky note and put your name on it.

- Look at the class model.
- On a sticky note, write down two questions you have about our explanation of why the fish died.
- Stick your note on the Question Chart.