

Pre and post surveys are distributed to each participating teacher. The surveys are written for different grade levels one for the 4<sup>th</sup> graders, 5<sup>th</sup> & 6<sup>th</sup> graders, 7<sup>th</sup> graders, and the 8<sup>th</sup>-12<sup>th</sup> graders. Schools in the program that have numerous grade levels participating are given the appropriate surveys so each student has the ability to take the proper survey. Pre-survey's that do not have a matching post-survey and vice-versa are taken out of that classroom pile. This assures that the assessments are accurate although it also can mean some schools had more/less students participating in the program then actually participating in the surveys because they missed the pre/post survey. Below is the compiled assessment of each survey along with individual assessments of each school that returned their pre and post-survey.



#### 4<sup>th</sup> Grade Pre/Post Survey Analysis

Overall the Rouge Education Project had six participating 4<sup>th</sup> grade classes. Of the six participating schools four completed the pre and post-survey. Below are the combined results followed by individual results for each school:

				Overall Summar 4 <sup>th</sup> Grade	У			
	Boys- 90	Gi	rls- 109	1 <sup>st</sup> Ti	me- 19	9		Total- 199
	What do we do to j	find out if water i	s polluted?					
1.	Pre-Survey	Correct: 114	Inc	Incorrect: 85 P		Percent: 57%		4 D:ff====== 210/ l======
	Post-Survey	Correct: 176	Inc	orrect: 23	Percer	nt: 88%	Percen	t Difference: 31% Increase
	What is something	a river needs to l	be healthy?					
2.	Pre-Survey	Correct: 190	Inc	orrect: 9	Percer	nt: 95%	Dawasa	+ Difference: F0/ Images
	Post-Survey	Correct: 199		orrect: 0	Percer	nt: 100%	Percen	t Difference: 5% Increase
	How do you feel ab	out science?						
3.		Love It	Like It	Neutra		Dislike I	t	Hate It
	Pre-Survey	110	69	16		3		1
	Post-Survey	116	67	12		3		1
	How do you feel ab	out participating	in this science pi	oject?				
	3 9	Very Excited	Excited	ОК		Not So Exci	ited	Not Excited at All
4.	Pre-Survey	117	49	27		4		2
	Post-Survey	109	55	32		2		1



				Α	chieve Academy					
					Canton, MI					
	Boys- 36	G	irls- 39		1 <sup>st</sup> Time-	75		Total- 75		
	What do we do to	find out if water i	s polluted?							
1.	Pre-Survey	Correct: 48		Incorre	ect: 27	Percent: 64	%	Daniel Difference 220/ January		
	Post-Survey	Correct: 72		Incorre	ect: 3	Percent: 96	%	Percent Difference: 32% Increase		
	What is something	a river needs to	be healthy?							
2.	Pre-Survey	Correct: 70		Incorre	ect: 5	Percent: 93	%	Percent Difference: 7% Increase		
	Post-Survey	Correct: 75		Incorre	ect: 0	Percent: 10	0	Percent Difference: 7% increase		
	How do you feel about science?									
3.		Love It	Like It		Neutral	D	islike It	Hate It		
	Pre-Survey	46	20		5		3	1		
	Post-Survey	43	22		8		1	1		
	How do you feel ab	oout participating	in this science p	oroject?	?					
_		Very Excited	Excited		ОК	Not	So Excited	Not Excited at All		
4.	Pre-Survey	49	10		12		2	2		
	Post-Survey	36	25		13		0	1		



			Adlai Ste	venson El	ementary Sc	hool				
				Southfie	eld, MI					
	Boys- 10	Gi	rls- 25		1 <sup>st</sup> Time- 3	35		Total- 35		
	What do we do to j									
1.	Pre-Survey	Correct: 25	Incorrect:	10 Percent: 7		71%	D			
	Post-Survey	Incorrect:	8	Percent:	77%	Percent Diffe	rence: 2% Increase			
	What is something	a river needs to b	e healthy?							
2.	Pre-Survey	Correct: 33	Incorrect:	2	Percent:	94%	Downant Diffe	vance. C0/ Image		
	Post-Survey	t-Survey Correct: 35		0	Percent:	100%	Percent Diffe	rence: 6% Increase		
	How do you feel about science?									
3.		Love It		Like It N		Di	slike It	Hate It		
	Pre-Survey	20	10		5		0	0		
	Post-Survey	24	10		1		0	0		
	How do you feel ab	out participating	in this science pro	ject?						
<b>A</b>		Very Excited	Excited		ОК	Not S	o Excited	Not Excited at All		
4.	Pre-Survey	22	8		5		0	0		
	Post-Survey	25	8		2		0	0		



				eld Elementa	-					
				ochester Hills	-		T			
	Boys- 34	Girls-	34	1 <sup>st</sup> Tim	e- 68			Total- 68		
	What do we do to j	find out if water i	s polluted?							
1.	Pre-Survey	Correct: 34	Incorrect:	34	Percent:	50%	Daniel Diff	Samuel 240/ Inches		
	Post-Survey	Correct: 57	Incorrect:	11	Percent:	84%	Percent Din	ference: 34% Increase		
	What is something	a river needs to l	be healthy?							
2.	Pre-Survey	Correct: 67	Incorrect:	Incorrect: 1 Pe		98%	Percent Difference: 2% Increase			
	Post-Survey	Correct: 68	Incorrect:	0	Percent:	100%	Percent Din	rerence: 2% increase		
	How do you feel about science?									
3.		Love It	Like It	Neut	ral	Dislike It		Hate It		
	Pre-Survey	35	31	2			0	0		
	Post-Survey	36	28	2			2	0		
	How do you feel ab	out participating	in this science proj	ect?						
	3	Very Excited	Excited	OK	(	Not So	o Excited	Not Excited at All		
4.	Pre-Survey	40	21	6			1	0		
	Post-Survey	37	17	12			2	0		



				Tonda Elementary Scho	ool	
				Canton, MI		
	Boys- 10	G	irls- 11	1 <sup>st</sup> Time- 21		Total- 21
	What do we do to	find out if water i	s polluted?			
1.	Pre-Survey	Correct: 7		Incorrect: 14	Percent: 67%	Demont Difference 200/ Income
	Post-Survey	Correct: 20		Incorrect: 1	Percent: 95%	Percent Difference: 28% Increase
	What is something	a river needs to l	be healthy?			
2.	Pre-Survey	Correct: 20		Incorrect: 1	Percent: 95%	D
	Post-Survey	Correct: 21		Incorrect: 0	Percent: 100%	Percent Difference: 5% Increase
	How do you feel ab	out science?				
3.		Love It	Like It	Neutral	Dislike It	Hate It
	Pre-Survey	9	8	4	0	0
	Post-Survey	13	7	1	0	0
	How do vou feel ab	out participatina	in this project? // I	How did vou feel about	participating in this pro	iect?
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Very Excited	Excited	ОК	Not So Excited	Not Excited at All
4.	Pre-Survey	6	10	4	1	0
	Post-Survey	11	5	5	0	0



#### 4<sup>th</sup> Grade Written Responses

#### #1: Why is it important to keep the river healthy and what steps will you take to help the river stay healthy?

- "It is important to keep the Rouge River clean so then the ecosystem is clean and we'll put up signs that say don't litter"—Owen O., Achieve Academy
- "The Rouge River leads to our Great Lakes which gives us water. And if the rouge is polluted then the great lakes could be and we could get sick" Vibhasn, Achieve Academy
- "It is important to keep the river healthy because it is natural beauty and it supplies a habitat"—Evan L., Tonda Elementary
- "It is important to keep the Rouge River healthy because we do not want trash in animals habitat. I will help it by not littering"—Audrey, Deerfield Elementary School
- "It is important because the pollution will kill and maybe extinct some animals and plants. All you need to do is stop littering and pouring chemicals into the water"—Rachel, Deerfield Elementary School

#### #2: what did you enjoy/not enjoy about participating in the REP?

- "I will enjoy doing chemical tests and testing the speed of the Rouge River"—Maya, Steppingstone School
- "I enjoyed all the activities especially the chemical testing"—Madison B., Achieve Academy
- "We took something very educational and made it into fun. Hiking, Chemical, Bug tests, and Physical survey was cool." Akshay J., Achieve Academy
- "I enjoyed how fun it was to actually be by the water"—Alexus, Stevenson Elementary School
- "I did enjoy it because it was very fun and I learned a lot"—Jasmine, Stevenson Elementary School
- "I enjoyed looking at all the different bugs we found. One of the bugs we found was a dragonfly. It was SO big! I enjoyed looking at the bugs"—Alyvia, Deerfield Elementary School
- "I enjoyed classifying the river creatures and searching for them. I didn't enjoy all the muck everywhere"—Asena, Deerfield Elementary School



#### 5<sup>th</sup>-6<sup>th</sup> Grade Pre/Post Survey Analysis

Overall the Rouge Education Project had fourteen participating 5<sup>th</sup> or 6<sup>th</sup> grade classes. Of the fourteen participating schools nine completed the pre and post survey. One school did complete the post-survey after monitoring day but did not submit their pre-survey. Below are the combined results followed by individual results for each school:

				rade Evaluatio				
		(9 -5 <sup>th</sup>	: Overall Overall ( <sup>th</sup> grade classes subr	Summary Repo		for analysis)		
	Boys- 229	Girls- 212	5 <sup>th</sup> Grade- 135	6 <sup>th</sup> Grade-			ne- 280	Total- 441
	What is a river?							
1.	Pre-Survey	Correct: 388	Incorrect: 53	1	Percent:	88%	Dovernt Diffe	
	Post-Survey	Correct: 393	Incorrect: 48		Percent: 8	89%	Percent Diffe	erence: 1% Increase
	What do we do to	examine the health o	of the river?					
2.	Pre-Survey	Correct: 292	Incorrect: 149	1	Percent:	66%	Dovernt Diffe	20/ Incress
	Post-Survey	Correct: 306	Incorrect: 135	1	Percent:	69%	Percent Diffe	erence: 3% Increase
	Which of the follow	ving would indicate o	a healthy river?					
3.	Pre-Survey	Correct: 375	Incorrect: 66	1	Percent:	85%	Dance of Diffe	40/ 1
	Post-Survey	Correct: 380	Incorrect: 61	1	Percent:	86%	Percent Dime	erence: 1% Increase
	How do you feel al	oout science?						
_		Love It	Like It	Neutra	al	Disl	ike It	Hate It
6.	Pre-Survey	140	193	37		1	19	4
	Post-Survey	135	193	81		1	L9	13
	How do you feel al	oout participating in	this project? // How di	id you feel abo	out partici	pating in this	project?	
-		Very Excited	Excited	ОК		Not So	Excited	Not Excited At All
7.	Pre-Survey	186	87	105		1	17	7
	Post-Survey	167	97	98		3	30	10



				n Covington School Ifield Twp, MI				
	Boys- 70	Girls- 67	5 <sup>th</sup> Grade- 68	6 <sup>th</sup> Grade- 69	1 <sup>st</sup> -	Time- 4	Total- 137	
	What is a river?							
1.	Pre-Survey	Correct: 126	Incorrect: 11	Percen	Percent: 92%		20/ Images	
	Post-Survey Correct: 129 Incorrect: 8 Percent: 94%  Percent Difference: 2% Incorrect: 94%							
	What do we do to	examine the health o	of the river?					
2.	Pre-Survey	Correct: 131	Incorrect: 6	Percen	t: 96%	Downsont Diffe		
	Post-Survey	Correct: 133	Incorrect: 4	Percen	t: 97%	Percent Diffe	erence: 1% Increase	
	Which of the follow	ving would indicate (	a healthy river?					
3.	Pre-Survey	Correct: 131	Incorrect: 6	Percen	t: 96%	Dorsont Diffe	erence: 2% Increase	
	Post-Survey	Correct: 135	Incorrect: 2	Percen	t: 98%	Percent Dine	erence: 2% increase	
	How do you feel ab	oout science?						
c		Love It	Like It	Neutral	Di	slike It	Hate It	
6.	Pre-Survey	33	59	37		8	0	
	Post-Survey	32	56	31		11	7	
	How do you feel ab	oout participating in	this project? // How did	d you feel about par	ticipating in th	is project?		
7.		Very Excited	Excited	ОК	Not S	So Excited	Not Excited At All	
/.	Pre-Survey	46	39	37		11	4	
	Post-Survey	46	39	32		13	7	



			• •	ert Academy etroit, MI		
	Boys- 21	Girls- 23	5 <sup>th</sup> Grade-	6 <sup>th</sup> Grade- 44	1 <sup>st</sup> Time- 30	Total- 44
	What is a river?					
1.	Pre-Survey	Correct: 33	Incorrect: 11	Percent:	75% Percent Diff	erence: 5% Decrease
	Post-Survey	Correct: 31	Incorrect: 13	Percent:	70%	erence: 5% Decrease
	What do we do to	examine the health o	of the river?			
2.	Pre-Survey	Correct: 29	Incorrect: 15	Percent:	66% Barrant Diff	
	Post-Survey	Correct: 37	Incorrect: 7	Percent:	84% Percent Din	erence: 18% Increase
	Which of the follow	ving would indicate (	a healthy river?			
3.	Pre-Survey	Correct: 30	Incorrect: 14	Percent:	68%	erence: 7% Increase
	Post-Survey	Correct: 33	Incorrect: 11	Percent:	75%	erence. 7% increase
	How do you feel ab	out science?				
c		Love It	Like It	Neutral	Dislike It	Hate It
6.	Pre-Survey	21	20	3	0	0
	Post-Survey	21	17	6	0	0
	How do you feel ab	out participating in	this project? // How di	d you feel about partic	ipating in this project?	
7.		Very Excited	Excited	OK	Not So Excited	Not Excited At All
/.	Pre-Survey	26	12	6	0	0
	Post-Survey	23	16	5	0	0



			Crescent Aca	ademy Internation	al		
			Ca	anton, MI			
	Boys- 14	Girls- 8	5 <sup>th</sup> Grade- 0	6 <sup>th</sup> Grade- 22	<b>1</b> <sup>s</sup>	<sup>t</sup> Time- 22	Total- 22
	What is a river?						
1.	Pre-Survey	Correct: 20	Incorrect: 2	Perce	ent: 91%	Damant Di	fference No Change
	Post-Survey	Correct: 20	Incorrect: 2	Perce	ent: 91%	Percent Di	fference: No Change
	What do we do to	examine the health o	f the river?				
2.	Pre-Survey	Correct: 19	Incorrect: 3	Perce	ent: 86%	Dorsont Di	fference: 9% Increase
	Post-Survey	Correct: 21	Incorrect: 1	Perce	ent: 95%	Percent Di	Herence: 9% increase
	Which of the follow	ving would indicate a	healthy river?				
3.	Pre-Survey	Correct: 21	Incorrect: 1	Perce	ent: 95%	Parcent Di	fforonco: No Chango
	Post-Survey	Correct: 21	Incorrect: 1	Perce	ent: 95%	Percent Di	fference: No Change
	How do you feel ab	oout science?					
c		Love It	Like It	Neutral	1	Dislike It	Hate It
6.	Pre-Survey	10	6	5		1	0
	Post-Survey	12	6	4		0	0
	How do you feel ab	oout participating in	this project? // How di	d you feel about po	articipating in	this project?	
7.		Very Excited	Excited	OK	No	t So Excited	Not Excited At All
/.	Pre-Survey	11	6	2		1	2
	Post-Survey	11	7	0		2	2



			_	n Elementary Detroit, MI					
	Boys- 3	Girls- 7	5 <sup>th</sup> Grade- 10	6 <sup>th</sup> Grade	-	1 <sup>st</sup> Time	e- 6	Total- 10	
	What is a river?								
1.	Pre-Survey	Correct: 9	Incorrect: 1	Pe	rcent: 9	90%	overst Diffe	***** 100/ Dos****	
	Post-Survey Correct: 8 Incorrect: 2 Percent: 80%  Percent Difference: 10% Decrease								
	What do we do to	examine the health o	f the river?						
2.	Pre-Survey	Correct: 10	Incorrect: 0	Pe	rcent:	100%	overet Diffe	vonce. No Change	
	Post-Survey	Correct: 10	Incorrect: 0	Pe	ercent:	100%	ercent Diffe	rence: No Change	
	Which of the follow	ving would indicate o	healthy river?						
3.	Pre-Survey	Correct: 9	Incorrect: 1	Pe	rcent: 9	90%	overset Diffe	rence: 20% Decrease	
	Post-Survey	Correct: 7	Incorrect: 3	Pe	Percent: 70%			rence. 20% Decrease	
	How do you feel ab	oout science?							
c		Love It	Like It	Neutral		Dislike	lt	Hate It	
6.	Pre-Survey	6	4	0		0		0	
	Post-Survey	5	5	0		0		0	
	How do you feel ab	oout participating in	this project? // How d	id you feel about	t partici <sub>i</sub>	pating in this pr	oject?		
7.		Very Excited	Excited	ОК		Not So Ex	cited	Not Excited At All	
/.	Pre-Survey	10	0	0		0		0	
	Post-Survey	9	0	1		0		0	



			Long Eler	nentary School		
			Dea	rborn, MI		
	Boys- 18	Girls- 5	5 <sup>th</sup> Grade- 23	6 <sup>th</sup> Grade-	1 <sup>st</sup> Time- 23	Total- 23
	What is a river?					
1.	Pre-Survey	Correct: 22	Incorrect: 1	Percent	: 96%	Difference: No Change
	Post-Survey	Correct: 22	Incorrect: 1	Percent	: 96%	Difference: No Change
	What do we do to	examine the health o	of the river?			
2.	Pre-Survey	Correct: 14	Incorrect: 9	Percent	: 61%	Difference: 470/ Impresse
	Post-Survey	Correct: 18	Incorrect: 5	Percent	: 78%	Difference: 17% Increase
	Which of the follow	ving would indicate (	a healthy river?			
3.	Pre-Survey	Correct: 19	Incorrect: 4	Percent	: 83%	Difference: 8% Increase
	Post-Survey	Correct: 21	Incorrect: 2	Percent	: 91%	officience: 6% increase
	How do you feel ab	out science?				
_		Love It	Like It	Neutral	Dislike It	Hate It
6.	Pre-Survey	8	8	3	3	1
	Post-Survey	9	8	4	1	1
	How do you feel ab	out participating in	this project? // How did	l you feel about parti	cipating in this project?	
7		Very Excited	Excited	OK	Not So Excited	Not Excited At All
7.	Pre-Survey	7	10	6	0	0
	Post-Survey	10	9	3	1	0



				Middle School			
	Boys- 2	Girls- 1	5 <sup>th</sup> Grade-	Froy, MI 6 <sup>th</sup> Grade- 3	1 <sup>st</sup>	Time- 3	Total- 3
	What is a river?				•		
1.	Pre-Survey	Correct: 3	Incorrect: 0	Percen	t: 100%	D D C.	
	Post-Survey	Correct: 3	Incorrect: 0	Percen	t: 100%	Percent Diff	erence: No Change
	What do we do to	examine the health o	of the river?				
2.	Pre-Survey	Correct: 1	Incorrect: 2	Percen	t: 33%	D	220/ 1
	Post-Survey	Correct: 2	Incorrect: 1	Percen	t: 66%	Percent Diff	erence: 33% Increase
	Which of the follow	ving would indicate o	n healthy river?				
3.	Pre-Survey	Correct: 3	Incorrect: 0	Percen	t: 100%	Davaget Diff	avance. No Chance
	Post-Survey	Correct: 3	Incorrect: 0	Percen	t: 100%	Percent Dim	erence: No Change
	How do you feel ab	out science?					
_		Love It	Like It	Neutral	D	islike It	Hate It
6.	Pre-Survey	3	0	0		0	0
	Post-Survey	2	1	0		0	0
	How do you feel ab	out participating in	this project? // How di	d you feel about par	ticipating in tl	his project?	
7		Very Excited	Excited	ОК	Not	So Excited	Not Excited At All
7.	Pre-Survey	2	1	0		0	0
	Post-Survey	3	0	0		0	0



			•	hool for Gifted Educati mington, MI	ion				
	Boys- 5	Girls- 2	5 <sup>th</sup> Grade- 4	6 <sup>th</sup> Grade- 3	1 <sup>st</sup> Time- 1	Total- 7			
	What is a river?								
1.	Pre-Survey	Correct: 7	Incorrect: 0	Percent: 1	00%	t Difference: No Change			
	Post-Survey	Correct: 7	Incorrect: 0	Percent: 1	00% Percen	t Difference: No Change			
	What do we do to	examine the health o	of the river?						
2.	Pre-Survey	Correct: 5	Incorrect: 2	Percent: 7	1%	t Difference 20% Increase			
	Post-Survey	Correct: 7	Incorrect: 0	Percent: 1	00% Percen	t Difference: 29% Increase			
	Which of the follow	ving would indicate o	a healthy river?						
3.	Pre-Survey	Correct: 7	Incorrect: 0	Percent: 1	00% Barrage	+ Difference: No Change			
	Post-Survey	Correct: 7	Incorrect: 0	Percent: 1	00%	t Difference: No Change			
	How do you feel ab	oout science?							
c		Love It	Like It	Neutral	Dislike It	Hate It			
6.	Pre-Survey	3	2	1	1	0			
	Post-Survey	3	3	1	0	0			
	How do you feel about participating in this project? // How did you feel about participating in this project?								
7		Very Excited	Excited	ОК	Not So Excited	Not Excited At All			
7.	Pre-Survey	2	2	2	1	0			
	Post-Survey	3	1	2	1	0			



			•	Middle School lvindale, MI			
	Boys- 80	Girls- 85	5 <sup>th</sup> Grade-	6 <sup>th</sup> Grade- 16	55	1 <sup>st</sup> Time- 161	Total- 165
	What is a river?						
1.	Pre-Survey	Correct: 140	Incorrect: 25	Per	cent: 85	% Parcent Diffe	wansa. Na Changa
	Post-Survey	Correct: 140	Incorrect: 25	Per	cent: 85	% Percent Diffe	erence: No Change
	What do we do to	examine the health o	f the river?**				
2.	Pre-Survey	Correct: 55	Incorrect: 110	Per	cent: 33	% Persont Diffe	erence: 3% Decrease
	Post-Survey	Correct: 49	Incorrect: 116	Per	cent: 30	% Percent Diffe	erence: 3% Decrease
	Which of the follow	ving would indicate a	healthy river?				
3.	Pre-Survey	Correct: 126	Incorrect: 39	Per	cent: 76	% Percent Diffe	erence: 2% Decrease
	Post-Survey	Correct: 122	Incorrect: 43	Per	cent: 74	%	rence. 2% Decrease
	How do you feel ab	out science?					
c		Love It	Like It	Neutral		Dislike It	Hate It
6.	Pre-Survey	45	78	33		6	3
	Post-Survey	38	84	31		7	5
	How do you feel ab	out participating in	this project? // How di	id you feel about <sub>l</sub>	participa	iting in this project?	
7.		Very Excited	Excited	ОК		Not So Excited	Not Excited At All
/.	Pre-Survey	67	49	46		2	1
	Post-Survey	50	53	52		9	1



				ementary Scho	ol			
	Boys- 16	Girls- 14	5 <sup>th</sup> Grade- 30	6 <sup>th</sup> Grade-	0	1 <sup>st</sup> Time-	30	Total- 30
	What is a river?							
1.	Pre-Survey	Correct: 28	Incorrect: 2	P	ercent: 9	3%	Dougout Did	ference: 4% Increase
	Post-Survey	Correct: 29	Incorrect: 1	P	ercent: 9	7%	Percent Dii	Terence: 4% Increase
	What do we do to	examine the health o	of the river?					
2.	Pre-Survey	Correct: 28	Incorrect: 2	P	ercent: 9	3%	Davaget Did	fores 40/ Incres
	Post-Survey	Correct: 29	Incorrect: 1	P	ercent: 9	7%	Percent Di	ference: 4% Increase
	Which of the follow	ving would indicate o	a healthy river?					
3.	Pre-Survey	Correct: 29	Incorrect: 1	P	ercent: 9	7%	Dougout Did	ference: No Difference
	Post-Survey	Correct: 29	Incorrect: 1	P	Percent: 97%			referice. No Difference
	How do you feel ab	out science?						
_		Love It	Like It	Neutral		Dislike	lt	Hate It
6.	Pre-Survey	11	16	3		0		0
	Post-Survey	13	13	4		0		0
	How do you feel ab	out participating in	this project? // How di	id you feel abou	ıt particip	ating in this pro	ject?	
7.		Very Excited	Excited	ОК		Not So Exc	ited	Not Excited At All
7.	Pre-Survey	15	7	6		2		0
	Post-Survey	12	11	3		4		0



		*	Detroit Coun Bev *post-survey only** (r	erly Hills, MI		nmarv)		
	Boys- 74	Girls- 43	5 <sup>th</sup> Grade-	6 <sup>th</sup> Grade			me- 117	Total- 117
	What is a river?							
1.	Pre-Survey	Correct:	Incorrect:		Percent:		D D C.	
	Post-Survey	Correct: 112	Incorrect: 5		Percent: 96	6%	Percent Diffe	erence:
	What do we do to	examine the health	of the river?					
2.	Pre-Survey	Correct:	Incorrect:		Percent:		Damant Diff	
	Post-Survey	Correct: 89	Incorrect: 28		Percent: 76	6%	Percent Diffe	erence:
	Which of the follow	ving would indicate	a healthy river?					
3.	Pre-Survey	Correct:	Incorrect:		Percent:		Percent Diffe	
	Post-Survey	Correct: 117	Incorrect: 0		Percent: 10	00%	Percent Dille	erence
	How do you feel ab	out science?						
_		Love It	Like It	Neut	ral	Dis	like It	Hate It
6.	Pre-Survey							
	Post-Survey	51	44	18	3		3	1
	How do you feel ab	out participating in	this project? // How d	id you feel ab	out participo	ating in thi	s project?	
_	, ,	Very Excited	Excited	Ol	(	Not So	o Excited	Not Excited At All
7.	Pre-Survey							
	Post-Survey	63	32	19	)		3	0



#### 5<sup>th</sup>-6<sup>th</sup> Grade Written Responses

#### # 4: Why is it important to keep the river healthy and what will YOU do to improve the health?

- "It is important to keep the Rouge River healthy because it is a habitat to many animals and plants and I will keep it clean all year long."—Frida, 5<sup>th</sup> Grade, Logan ES
- "To me it's better to keep the Rouge River healthy because it helps our community and helps stay clean"—Damian, 5<sup>th</sup> Grade, Logan ES
- "It is important because it is a river that transports water to us, also what I will do is tests the water and see what plants belong there"- Angel, 6<sup>th</sup> Grade Clippert Academy
- "The Rouge River provides some of us with our essential needs. Even if it doesn't provide ours, we have to be mindful of others. Also, the Rouge affects many other bodies of water"—Moosa, 6<sup>th</sup> Grade, Crescent Academy International
- "It is important because the Rouge is a natural attraction and that it goes into the Detroit River. When it goes to the Detroit River it is important that is clean because it is a water source for people"—Adnan, 6<sup>th</sup> Grade, Crescent Academy International
- "Because it's Tonda's backyard and we don't want it to be an ugly sight and because the bugs, plants, and animals need clean water and if it's dirty the animals, bugs, and plants might get sick. I will test the water yearly"—Emily 5<sup>th</sup> Grade, Tonda Elementary
- To keep it clean you have to not pour waste in the river or trash. I will stop throwing stuff on the ground cause it can blow into the river"—Austin, 6<sup>th</sup> Grade, Strong Middle School
- "It is important because we want to keep our world healthy. I will help by recycling so the trash doesn't end up in the river."—Madison, 5<sup>th</sup> Grade, Long Elementary School
- "It is important to keep the river healthy because that is our watershed and it's our responsibility to keep it clean. We can volunteer at the Rouge River and do surveys"—Merrill, 6<sup>th</sup> Grade, Birmingham Covington School
- "It is important to keep the Rouge River healthy because there are many plants and animals that live in and rely on the river. To improve the health of the Rouge River I will try to use less fertilizer so it won't get washed away into the river by rain."—Reagan, 5<sup>th</sup> Grade, Birmingham Covington School

#### #5: What do you think you will enjoy/not enjoy about the REP?

- "I think I will enjoy the Rouge Education Project because I am going to be able to learn something new about the River"—Melisa, 5<sup>th</sup> Grade, Logan
- "What I enjoyed about the Rouge Education Project was testing the water and walking around looking at all the plants and hearing the birds chirp"—Lizeth, 6<sup>th</sup> Grade, Clippert Academy
- "I enjoyed seeing all the different insects and animals. I also enjoyed the hikes and scenery. There were all types of surprises that made us laugh. I will never forget the adventure I had at the Rouge River. I was also happy to help to get the river cleaned up again"—Amani, 6<sup>th</sup> Grade, Crescent Academy International



- "I very much enjoyed it because I love helping people/environment and getting wet!"—Jared, 5<sup>th</sup> Grade, Tonda Elementary
- "I like that we got to do a bunch of different things and we got to walk in the water and get all the trash out of the river"—Jaymi, 5<sup>th</sup> Grade Tonda Elementary
- "I enjoyed performing the different chemical tests for the water and I liked all of the physical tests too"—Morganne, 6<sup>th</sup> Grade, Strong Middle School
- "I did not like seeing all the pollution. I loved putting on the waders and going in"—Riley, 5<sup>th</sup> Grade, Long Elementary School
- "I really enjoy going out into the community and making a difference through something educational, fun, and exciting."—Claire, 5<sup>th</sup> Grade, Birmingham Covington School
- "I enjoyed the Rouge Education Project because instead of someone else doing the research, we do it."—Marina, 6<sup>th</sup> Grade, Birmingham Covington School



#### 7<sup>th</sup> Grade Pre/Post Survey Analysis

Overall the Rouge Education Project had four participating 7<sup>th</sup> grade classes. Of the four participating schools four completed the pre and post survey. Below are the combined results followed by individual results for each school:

				rall Summary 7 <sup>th</sup> Grade		
	Boys- 114	Girls-	115	1 <sup>st</sup> Time- 122	Т	otal- 229
	What do we do to	find out if water is po	luted?			
1.	Pre-Survey	Correct: 201	Incorrect: 28	Percent: 889	% Dorsont Diffe	rence: 5% Increase
	Post-Survey	Correct: 214	Incorrect: 15	Percent: 939	% Percent Diffe	rence: 5% increase
	What is something	a river needs to be he	ealthy?			
2.	Pre-Survey	Correct: 141	Incorrect: 73	Percent: 629	% Porsont Diffe	rence: 15% Increase
	Post-Survey	Correct: 177	Incorrect: 52	Percent: 779	% Percent Dille	rence: 15% increase
	Which of the follow	ving would indicate a	healthy river?			
3.	Pre-Survey	Correct: 198	Incorrect: 31	Percent: 869	% Porcent Diffe	rence: 3% Increase
	Post-Survey	Correct: 204	Incorrect: 25	Percent: 899	% Percent Diffe	rence: 5% increase
	How do you feel ab	oout science?				
_	, ,	Love It	Like It	Neutral	Dislike It	Hate It
6.	Pre-Survey	50	113	51	8	7
	Post-Survey	45	112	54	13	5
	How do you feel ab	oout participating in t	his project?			
7	, , ,	Very Excited	Excited	ОК	Not So Excited	Not Excited At All
7.	Pre-Survey	52	84	80	11	2
	Post-Survey	35	89	80	19	6



				cademy Interr	national			
	Boys- 9	Girls-	1	Canton, MI 1 <sup>st</sup> Time	e- 17		To	otal- 17
		find out if water is poll	uted?			l		
1.	Pre-Survey		Incorrect: 4		Percent: 7	76%	_	
	Post-Survey	Correct: 17	Incorrect: 0		Percent: 1	100%	Percent Di	fference: 24% Increase
	What is something	a river needs to be he	althy?		•		<u>.</u>	
2.	Pre-Survey	Correct: 17	Incorrect: 0		Percent: 1	L00%		" N O
	Post-Survey	Correct: 17	Incorrect: 0		Percent: 1	100%	Percent Di	fference: No Change
	Which of the follow	ving would indicate a h	nealthy river?				•	
3.	Pre-Survey	Correct: 16	Incorrect: 1		Percent: 9	94%	Damas Di	Yanan Na Chana
	Post-Survey	Correct: 16	Incorrect: 1		Percent: 9	94%	Percent Di	fference: No Change
	How do you feel ab	out science?						
_	, ,	Love It	Like It	Neut	ral	Dislik	e It	Hate It
6.	Pre-Survey	3	8	3		2		1
	Post-Survey	2	7	4		3		1
	How do you feel ab	out participating in th	is project? // How d	lid you feel ab	out particip	pating in this p	project?	
7		Very Excited	Excited	Ok	(	Not So E	xcited	Not Excited At All
7.	Pre-Survey	2	6	6		2		1
	Post-Survey	4	5	4		2		2



				try Day Middle Schoo erly Hills, MI	ol		
	Boys- 68	Girls-	42	1 <sup>st</sup> Time- 20		To	tal- 110
	What do we do to	find out if water is po	lluted?				
1.	Pre-Survey	Correct: 102	Incorrect: 8	Percen	it: 93%	Porcont Diffe	erence: 4% Increase
	Post-Survey	Correct: 107	Incorrect: 3	Percen	t: 97%	Percent Diffe	erence: 4% increase
	What is something	a river needs to be h	ealthy?				
2.	Pre-Survey	Correct: 89	Incorrect: 21	Percen	t: 81%	Dougout Diffe	erence: 2% Decrease
	Post-Survey	Correct: 87	Incorrect: 23	Percen	it: 79%	Percent Dille	erence: 2% Decrease
	Which of the follow	ving would indicate a	healthy river?				
3.	Pre-Survey	Correct: 107	Incorrect: 3	Percen	t: 97%	Doveent Diffe	erence: 2% Decrease
	Post-Survey	Correct: 105	Incorrect: 5	Percen	it: 95%	Percent Dille	erence: 2% Decrease
	How do you feel ab	out science?					
6.		Love It	Like It	Neutral		Dislike It	Hate It
о.	Pre-Survey	27	48	25		5	5
	Post-Survey	25	44	32		6	3
	How do you feel ab	out participating in t	his project?				
7.	_	Very Excited	Excited	ОК	Not	So Excited	Not Excited At All
/.	Pre-Survey	29	35	41		4	1
	Post-Survey	10	38	47		12	3



				Magnet Middle School Detroit, MI				
	Boys- 34	Girls-		1 <sup>st</sup> Time- 80	7	otal- 94		
	What do we do to	find out if water is po	lluted?					
1.	Pre-Survey	Correct: 83	Incorrect: 11	Percent: 88%	6 Daycout Diffe	rence: 1% Increase		
	Post-Survey	Correct: 84	Incorrect: 10	Percent: 89%	% Percent Diffe	rence: 1% increase		
	What is something	a river needs to be h	ealthy?					
2.	Pre-Survey	Correct: 28	Incorrect: 66	Percent: 30%	6 Barrett Biffe	400/ 100000		
	Post-Survey	Correct: 66	Incorrect: 28	Percent: 70%	<sup>6</sup> Percent Diffe	rence: 40% Increase		
	Which of the follow	ving would indicate a	healthy river?					
3.	Pre-Survey	Correct: 67	Incorrect: 27	Percent: 719	6 Daycout Diffe	rence: 8% Increase		
	Post-Survey	Correct: 75	Incorrect: 19	Percent: 79%	% Percent Diffe	rence: 8% increase		
	How do you feel ab	oout science?						
_		Love It	Like It	Neutral	Dislike It	Hate It		
6.	Pre-Survey	18	51	23	1	1		
	Post-Survey	16	55	18	4	1		
How do you feel about participating in this project?								
7.		Very Excited	Excited	OK	Not So Excited	Not Excited At All		
7.	Pre-Survey	19	37	33	5	0		
	Post-Survey	19	40	29	5	1		



			Smith	h Middle Schoo Troy, MI	ol		
	Boys- 3	Girls	- 5	1 <sup>st</sup> Time	- 5	•	Total- 8
	What do we do to	find out if water is po	lluted?				
1.	Pre-Survey	Correct: 3	Incorrect: 5		Percent: 38%	Dorsont D	Difference: 37% Increase
	Post-Survey	Correct: 6	Incorrect: 2		Percent: 75%	Percent	interence: 57% increase
	What is something	a river needs to be h	ealthy?				
2.	Pre-Survey	Correct: 7	Incorrect: 1		Percent: 88%	Downsent D	Aifforence No Change
	Post-Survey	Correct: 7	Incorrect: 1		Percent: 88%	Percent L	Oifference: No Change
	Which of the follow	ving would indicate a	healthy river?				
3.	Pre-Survey	Correct: 8	Incorrect: 0		Percent: 100%	Dorsont D	Nifforonco, No Chango
	Post-Survey	Correct: 8	Incorrect: 0		Percent: 100%	Percent L	Oifference: No Change
	How do you feel ab	oout science?					
_		Love It	Like It	Neutr	al	Dislike It	Hate It
6.	Pre-Survey	2	6	0		0	0
	Post-Survey	2	6	0		0	0
How do you feel about participating in this project?							
7.		Very Excited	Excited	ОК		Not So Excited	Not Excited At All
/.	Pre-Survey	2	6	0		0	0
	Post-Survey	2	6	0		0	0



#### 7<sup>th</sup> Grade Written Responses

#### # 4: Why is it important to keep the river healthy and what will YOU do to improve the health?

- "It is important to keep the Rouge healthy because it is home to several animals and plants. I can warn people to minimize fertilizer use and other chemicals so few(er) chemicals get carried by runoff"—Revanth, Detroit Country Day Middle School
- "It is important to keep it healthy so we can live in a healthy, clean environment. To keep it clean I will not litter and help keep it clean by education others"—Sanjna, Detroit Country Day Middle School
- "It's important to keep the Rouge River healthy because lots of animals, plants, and bugs live there so in order to keep things living there alive, we must keep the area clean. I will clean up, and make sure I'm not littering or harming anything"—Haaniya, Crescent Academy International
- "It is important to keep the Rouge River healthy because it is a historical river and I will stop throwing things on the ground so it does not drain into the river"—Donovan, Ludington Magnet Middle School
- "I will be more sympathetic by doing my own part on keeping it clean"—Breann, Ludington Magnet Middle School

#### #5: What do you think you will enjoy/not enjoy about the REP?

- "I enjoyed going outside and experimenting with the chemicals and analyzing my results"—Rohan, Detroit Country Day Middle School
- "I enjoying being hands on with the river water and chemicals"—Slive, Detroit Country Day Middle School
- "It was a good way to see what is effecting the health of our natural resources"—Issa, Crescent Academy International
- "We had the chance to see some animals we've never seen before"—Bryan, Ludington Magnet Middle School
- "I enjoyed seeing the animals, learning more about the Rouge River and being in a peaceful forest and scenery"—Darius, Ludington Magnet Middle School
- "I enjoyed looking and learning about the water and what different things lived in the water"—Iyana, Ludington Magnet Middle School



#### 8<sup>th</sup>-12<sup>th</sup> Grade Pre/Post Survey Analysis

Overall the Rouge Education Project had twenty-nine participating 8<sup>th</sup>- 12<sup>th</sup> grade classes. Of the twenty-nine participating schools twelve completed the pre and post survey. Below are the combined results followed by individual results for each school:

					Overall Sum 8 <sup>th</sup> -12 <sup>th</sup> Gr					
Male	es- 155	Females-	181 8 <sup>th</sup> Grade- 99	9 <sup>th</sup> Grade- 41	10 <sup>th</sup> Grade- 51	11 <sup>th</sup> Grade- 55	12 <sup>th</sup> Grade- 90	1 <sup>st</sup> Time- 210	Total- 336	
	What do	o we do to j	find out if water is pollu	ited?						
1.	F	Pre-Survey	Correct: 245	Incorrect: 91	F	Percent: 73%	Dorsont Difford	ence: 21% Incre	200	
	Po	ost-Survey	Correct: 317	Incorrect: 19	F	Percent: 94%	Percent Differe	ence: 21% incre	ase	
	What is	something	a river needs to be hea	Ithy?						
2.	F	Pre-Survey	Correct: 196	Incorrect: 140	F	Percent: 58%	Daycont Difford	ence: 18% Incre		
	Po	ost-Survey	Correct: 254	Incorrect: 82	F	Percent: 76%	Percent Differe	ence: 18% incre	ase	
	Which o	f the follow	ving would indicate a h	ealthy river?						
3.	F	Pre-Survey	Correct: 210	Incorrect: 126	F	Percent: 63%	Daycout Difford	Percent Difference: 8% Increase		
	Po	ost-Survey	Correct: 237	Incorrect: 99	F	Percent: 71%	Percent Differe	ence: 8% increa	se	
	The following pH will indicate an UNHEALTHY river:									
4.	_	Pre-Survey		Incorrect: 72	orrect: 72 Percent: 78%			Percent Difference: 1% Increase		
	P	ost Survey	Correct: 265	Incorrect: 71	F	Percent: 79%	Percent Differe	ence: 1% increa	se	
	How do	you feel ab	out science?							
6			Love It	Like It		Neutral	Dislike It		Hate It	
6.	F	Pre-Survey	108	156		55	13		4	
	Po	ost-Survey	116	149		55	11		5	
	How do	you feel ab	out participating in thi	s project? // How d	lid you feel abo	ut participating in t	this project?			
7.			Very Excited	Excited		ОК	Not So Excited	No	t Excited At All	
<b>'</b> '	F	Pre-Survey	86	114		119	12		5	
	Po	ost-Survey	91	130		101	8		6	



				Char	ndler Park Acadei Harper Woo	, ,			
Mal	es- 2	Females	- 17 8 <sup>th</sup> Grade-	9 <sup>th</sup> Grade- 7	10 <sup>th</sup> Grade- 1	11 <sup>th</sup> Grade-	12 <sup>th</sup> Grade- 11	1 <sup>st</sup> Time- 13	Total- 19
	What d	o we do to j	find out if water is pol	luted?					
1.	I	Pre-Survey	Correct: 6	Incorrect: 13	ſ	Percent: 32%	Dougant Difford	ence: 68% Increa	
	P	ost-Survey	Correct: 13	Incorrect: 0	ſ	Percent: 100%	Percent Difference	ence: 68% increa	ase
	What is	something	a river needs to be he	ealthy?					
2.	I	Pre-Survey	Correct: 15	Incorrect: 4	ſ	Percent: 79%	Daysont Differ	ence: 5% Decrea	
	P	ost-Survey	Correct: 14	Incorrect: 5	ſ	Percent: 74%	Percent Differe	ence: 5% Decrea	ise
	Which c	of the follow	ving would indicate a	healthy river?					
3.	I	Pre-Survey	Correct: 8	Incorrect: 11	ſ	Percent: 42%	Daysont Differ	Percent Difference: 10% Decrease	
	Post-Survey Correct: 6 Incorrect: 13					Percent: 32%	Percent Differe	ence. 10% Decre	dse
	The following pH will indicate an UNHEALTHY river:								
4.	F	Pre-Survey	Correct: 13	Incorrect: 6	Incorrect: 6		Percent Difference: 15% Decrease		
	Р	ost Survey	Correct: 10	Incorrect: 9	I	Percent: 53%	Percent Differe	ence. 13% Decre	:dSE
	How do	you feel ab	out science?						
6.			Love It	Like It		Neutral	Dislike It		Hate It
o	ſ	Pre-Survey	6	11		2	0		0
	Р	ost-Survey	4	13		2	0		0
	How do	you feel ab	out participating in t	his project? // How	did you feel abo	ut participating in th	his project?		
7.			Very Excited	Excited		ОК	Not So Excited	No	t Excited At All
<b>'</b> [	ı	Pre-Survey	4	9		6	0		0
	P	ost-Survey	4	9		6	0		0



					Crestwood High Dearborn Heigh				
Ma	les- 29	Females	- 32 8 <sup>th</sup> Grade-	9 <sup>th</sup> Grade-	10 <sup>th</sup> Grade- 34	11 <sup>th</sup> Grade- 15	12 <sup>th</sup> Grade- 12	1 <sup>st</sup> Time- 11	Total- 61
	What do	we do to j	find out if water is po	olluted?					
1.	Р	re-Survey	Correct: 60	Incorrect: 1	Pe	ercent: 98%	Dorsont Difford	ence: No Differe	nco
	Po	st-Survey	Correct: 60	Incorrect: 1	Pe	ercent: 98%	Percent Differe	ence. No Differe	nce
	What is	something	a river needs to be h	nealthy?					
2.	Р	re-Survey	Correct: 57	Incorrect: 4	Pe	ercent: 93%	Dorsont Difford	ence: 3% Decrea	
	Ро	st-Survey	Correct: 55	Incorrect: 6	Pe	ercent: 90%	Percent Differe	ence: 3% Decrea	se
	Which of	f the follow	ving would indicate o	a healthy river?					
3.	Р	re-Survey	Correct: 57	Incorrect: 4	Pe	ercent: 93%	Percent Difference: 4% Increase		
	Post-Survey Correct: 59 Incorrect: 2				Pe	ercent: 97%	Percent Differe	ence: 4% increas	e
	The follo	wing pH w	vill indicate an UNHE	ALTHY river:					
4.	Pi	re-Survey	Correct: 60	Incorrect: 1	Pe	ercent: 98%	Dougout Difford	nace No Differe	
	Po	st Survey	Correct: 60	Incorrect: 1	Pe	ercent: 98%	Percent Difference: No Difference		
	How do	you feel ab	oout science?						
6.			Love It	Like It	: N	eutral	Dislike It		Hate It
ь.	Р	re-Survey	36	20		4	1		0
	Po	st-Survey	35	23		2	0		1
	How do	you feel ab	out participating in	this project? // Ho	w did you feel abou	t participating in thi	s project?		
7.			Very Excited	Excited	t	OK	Not So Excited	Not	Excited At All
<b>′</b> · [	Р	re-Survey	28	22		9	2		0
Ī	Po	st-Survey	31	24		5	1		0



				Detr	oit Academy of Detroit,				
Mal	les- 18	Females	- 28 8 <sup>th</sup> Grade- 46	9 <sup>th</sup> Grade-	10 <sup>th</sup> Grade-	11 <sup>th</sup> Grade-	12 <sup>th</sup> Grade-	1 <sup>st</sup> Time- 46	Total- 46
	What do	we do to j	find out if water is pol	luted?					
1.	P	re-Survey	Correct: 16	Incorrect: 30		Percent: 35%	Dorsont Diffor	ence: 43% Increa	
	Ро	st-Survey	Correct: 36	Incorrect: 10	Incorrect: 10 Percent: 78%			ence: 43% increa	se
	What is	something	a river needs to be he	althy?					
2.	P	re-Survey	Correct: 20	Incorrect: 26		Percent: 43%	Dorgant Diffor	ence: 35% Increa	
	Po	st-Survey	Correct: 36	Incorrect: 10		Percent: 78%	Percent Diller	ence: 35% increa	ise
	Which of	f the follow	ving would indicate a	healthy river?					
3.	P	re-Survey	Correct: 19	Incorrect: 27		Percent: 41%	Percent Difference: 4% Decrease		
	Po	st-Survey	Correct: 17	Incorrect: 29		Percent: 37%	Percent Diller	ence: 4% Decreas	se .
	The follo	wing pH w	vill indicate an UNHEA	LTHY river:					
4.	Pı	re-Survey	Correct: 24	Incorrect: 22	Incorrect: 22		Percent Difference: 4% Decrease		
	Po	st Survey	Correct: 22	Incorrect: 24		Percent: 48%	Percent Differ	ence: 4% Decreas	e e
	How do y	you feel ab	out science?						
6.			Love It	Like It		Neutral	Dislike It		Hate It
ь.	P	re-Survey	8	28		8	2		0
	Po	st-Survey	6	34		6	0		0
	How do y	you feel ab	out participating in th	nis project? // How	did you feel abo	out participating in th	is project?		
7.			Very Excited	Excited		ОК	Not So Excited	Not	Excited At All
<b>'</b> .	P	re-Survey	13	12		21	0		0
	Po	st-Survey	12	18		16	0		0



					De	troit Country Da Beverly F	ay Middle School Iills, MI				
Mal	les- 22	Females	s- <b>23</b>	8 <sup>th</sup> Grade- 45	9 <sup>th</sup> Grade-	10 <sup>th</sup> Grade-	11 <sup>th</sup> Grade	e- 12 <sup>th</sup> Grade-	1 <sup>st</sup> Time- 11	Total- 45	
	What do	we do to j	find out	if water is pollu	ted?						
1.	P	re-Survey	Correc	t: 42	Incorrect: 3		Percent: 93%	Dorsont Difford	Percent Difference: 5% Increase		
	Po	st-Survey	Correc	t: 44	Incorrect: 1		Percent: 98%	Percent Differe	ence. 5% increase	е	
	What is	omething	a river	needs to be hea	lthy?						
2.	P	re-Survey	Correc	t: 30	Incorrect: 15		Percent: 67%	Doveent Differe	ence: 16% Decrea		
	Po	st-Survey	Correc	t: <b>2</b> 3	Incorrect: 22		Percent: 51%	Percent Differe	ence: 16% Decrea	ase	
	Which of	the follow	ving wo	uld indicate a he	ealthy river?						
3.	P	re-Survey	Correc	t: 27	Incorrect: 18		Percent: 60%	Dougout Difford	ence: 13% Increa		
	Po	st-Survey	Correc	t: 33	Incorrect: 12		Percent: 73%	Percent Differe	ence: 13% increa	se	
	The follo	wing pH w	vill indic	ate an UNHEAL1	THY river:						
4.	Pı	re-Survey	Correc	t: 39	Incorrect: 6		Percent: 87%	Doveent Differe	Percent Difference, 119/ Decrees		
	Po	st Survey	Correc	t: 34	Incorrect: 11		Percent: 76%	Percent Differe	Percent Difference: 11% Decrease		
	How do y	ou feel ab	out scie	ence?							
6.				Love It	Like It	;	Neutral	Dislike It		Hate It	
о.	P	re-Survey		10	20		12	2		1	
	Po	st-Survey		13	16		12	2		2	
	How do y	ou feel ab	out par	ticipating in this	project? // Ho	w did you feel a	bout participating	in this project?			
7.			Ve	ery Excited	Excited	t	ОК	Not So Excited	Not	Excited At All	
<b>′</b> · [	P	re-Survey		3	18	18 20		3		1	
	Po	st-Survey		2	13		27	1		2	



				Linc	oln Street Alterna Birmingha	_			
Ma	les- 11	Females	- 5 8 <sup>th</sup> Grade-	9 <sup>th</sup> Grade-	10 <sup>th</sup> Grade- 6	11 <sup>th</sup> Grade- 4	12 <sup>th</sup> Grade- 6	1 <sup>st</sup> Time- 13	Total- 16
	What do	we do to j	find out if water is pol	luted?					
1.	Р	re-Survey	Correct: 8	Incorrect: 8		Percent: 50%	Dorsont Diffor	ence: 33% Increa	
	Po	st-Survey	Correct: 14	Incorrect: 2		Percent: 88%	Percent Differ	ence: 33% increa	se
	What is	something	a river needs to be he	althy?					
2.	Р	re-Survey	Correct: 4	Incorrect: 12		Percent: 25%	Devent Differ	750/ Inches	
	Po	st-Survey	Correct: 16	Incorrect: 0		Percent: 100%	Percent Differ	ence: 75% Increa	se
	Which of	f the follow	ving would indicate a	healthy river?					
3.	Р	re-Survey	Correct: 4	Incorrect: 12		Percent: 25%	Downsont Differ	ence: 7% Decreas	
	Po	st-Survey	Correct: 3	Incorrect: 13		Percent: 18%	Percent Differ	ence: 7% Decreas	e
	The follo	wing pH w	vill indicate an UNHEA	LTHY river:					
4.	Pre-Survey   Correct: 11			Incorrect: 5	Incorrect: 5		Percent Difference: 13% Decrease		
	Po	ost Survey	Correct: 9	Incorrect: 7		Percent: 56%	Percent Differ	ence: 13% Decrea	ise
	How do	you feel ab	out science?						
6.			Love It	Like It	:	Neutral	Dislike It		Hate It
ο.	Р	re-Survey	2	7		5	2		0
	Po	st-Survey	2	6		7	1		0
	How do	you feel ab	out participating in th	nis project? // Ho	w did you feel abo	out participating in thi	s project?		
<b>,</b> [			Very Excited	Excited	d	ОК	Not So Excited	Not	Excited At All
7.	Р	re-Survey	0	2		13	1		0
Ī	Po	st-Survey	2	5		6	3		0



					Novi High Sch Novi, MI	ool				
Mal	les- 14	Females	- 13 8 <sup>th</sup> Grade-	9 <sup>th</sup> Grade- 26 10	) <sup>th</sup> Grade- 1	11 <sup>th</sup> Grade-	12 <sup>th</sup> Grade-	1 <sup>st</sup> Time- 26	Total- 27	
	What do	we do to j	find out if water is po	lluted?						
1.	P	re-Survey	Correct: 24	Incorrect: 3	Pe	rcent: 89%	Porcent Differ	ent Difference: 11% Increase		
	Po	st-Survey	Correct: 27	Incorrect: 0	Incorrect: 0 Percent: 100%			ence. 11% increa	se	
	What is s	something	a river needs to be h	ealthy?						
2.	P	re-Survey	Correct: 9	Incorrect: 18	Pe	rcent: 33%	Dorcont Diffor	ence: 63% Increa		
	Po	st-Survey	Correct: 26	Incorrect: 1	Pe	rcent: 96%	Percent Diller	ence: 63% increa	se	
	Which of	f the follow	ving would indicate a	healthy river?						
3.	P	re-Survey	Correct: 10	Incorrect: 17	Pe	rcent: 37%	Dorgant Diffor	ence: 37% Increa		
	Po	st-Survey	Correct: 20	Incorrect: 7	Pe	rcent: 74%	Percent Diller	ence: 37% increa	se	
	The follo	wing pH w	vill indicate an UNHEA	ALTHY river:						
4.	Pi	re-Survey	Correct: 23	Incorrect: 4	Pe	rcent: 85%	Dorcont Diffor	ence: 4% Increase		
	Po	st Survey	Correct: 24	Incorrect: 3	Pe	rcent: 89%	Percent Diller	ence. 4% increase	=	
	How do y	you feel ab	out science?							
_			Love It	Like It	Ne	eutral	Dislike It		Hate It	
6.	P	re-Survey	4	18		5	0		0	
	Po	st-Survey	5	15		6	1		0	
	How do y	you feel ab	out participating in t	his project? // How did	you feel about	participating in thi	is project?			
7.			Very Excited	Excited		ОК	Not So Excited	Not	Excited At All	
<b>′</b> · [	P	re-Survey	3	9		13	2		0	
	Po	st-Survey	3	15		8	1		0	



				Oakland S	Schools Technica Royal Oal	l Campus- Southeast c, MI				
Ma	ales- 3	Females-	4 8 <sup>th</sup> Grade-	9 <sup>th</sup> Grade-	10 <sup>th</sup> Grade-	11 <sup>th</sup> Grade- 4	12 <sup>th</sup> Grade- 3	1 <sup>st</sup> Time- 5	Total- 7	
	What do	we do to j	find out if water is pol	luted?						
1.	Р	re-Survey	Correct: 3	Incorrect: 4		Percent: 43%	Dorsont Difford	ence: 43% Increa	50	
	Pc	st-Survey	Correct: 6	Incorrect: 1		Percent: 86%	Percent Difference	ence: 45% increa	se	
	What is	something	a river needs to be he	ealthy?						
2.	Р	re-Survey	Correct: 7	Incorrect: 0		Percent: 100%	Dorsont Difford	ence: 14% Decre		
	Pc	st-Survey	Correct: 6	Incorrect: 1		Percent: 86%	Percent Differe	ence: 14% Decre	ase	
	Which o	f the follow	ving would indicate a	healthy river?						
3.	Р	re-Survey	Correct: 5	Incorrect: 2		Percent: 71%	Daysont Difford	ence: 15% Increa		
	Pc	st-Survey	Correct: 6	Incorrect: 1		Percent: 86%	Percent Difference	ence: 15% increa	se	
	The follo	wing pH w	ill indicate an UNHEA	LTHY river:						
4.	P	re-Survey	Correct: 5	Incorrect: 2		Percent: 71%	Darsont Difford	nece 15% Incres	50	
	Pc	ost Survey	Correct: 6	Incorrect: 1		Percent: 86%	Percent Difference: 15% Increase			
	How do	you feel ab	out science?							
,			Love It	Like It		Neutral	Dislike It		Hate It	
6.	Р	re-Survey	4	2		1	0		0	
	Pc	st-Survey	3	3		1	0		0	
	How do	you feel ab	out participating in t	his project? // How	did you feel abo	out participating in thi	s project?			
7.		_	Very Excited	Excited		ОК	Not So Excited	Not	Excited At All	
<b>′</b> · [	Р	re-Survey	1	4		2	0		0	
Ī	Po	st-Survey	2	3		2	0		0	



					Plymouth Hig Canton,				
Mal	les- 19	Females	- 17 8 <sup>th</sup> Grade- 0	9 <sup>th</sup> Grade- 0	10 <sup>th</sup> Grade- 1	11 <sup>th</sup> Grade- 4	12 <sup>th</sup> Grade- 31	1 <sup>st</sup> Time- 33	Total- 36
	What do	we do to j	find out if water is poll	uted?					
1.	Р	re-Survey	Correct: 25	Incorrect: 11		Percent: 69%	Parcent Differe	ence: 31% Increa	250
	Po	st-Survey	Correct: 36	Incorrect: 0		Percent: 100%	Percent Difference	ence. 31% increa	156
	What is	something	a river needs to be he	althy?					
2.	Р	re-Survey	Correct: 11	Incorrect: 25		Percent: 31%	Dorsont Difford	ence: 69% Incre	252
	Po	st-Survey	Correct: 36	Incorrect: 0		Percent: 100%	Percent Differen	ence: 69% incre	ase
	Which of	f the follow	ving would indicate a l	nealthy river?					
3.	Р	re-Survey	Correct: 30	Incorrect: 6		Percent: 83%	Dorsont Difford	ence: 11% Increa	
	Po	st-Survey	Correct: 34	Incorrect: 2		Percent: 94%	Percent Difference	ence: 11% increa	ise
	The follo	wing pH w	vill indicate an UNHEA	LTHY river:					
4.	Pi	re-Survey	Correct: 27	Incorrect: 9		Percent: 75%	Percent Difference: 14% Increase		
	Po	st Survey	Correct: 32	Incorrect: 4		Percent: 89%	Percent Difference	ence: 14% increa	ise
	How do	you feel ab	out science?						
6.			Love It	Like It		Neutral	Dislike It		Hate It
ь.	Р	re-Survey	8	20		4	4		0
	Po	st-Survey	9	18		6	2		1
	How do	you feel ab	out participating in th	is project? // How	did you feel abo	out participating in thi	is project?		
7.			Very Excited	Excited		OK	Not So Excited	Not	Excited At All
<b>'</b> · [	Р	re-Survey	8	14		14	0		0
	Po	st-Survey	3	25		8	0		0



					Smith Midd					
N 4	alaa 1	Famalas	- 2 8 <sup>th</sup> Grade- 3	9 <sup>th</sup> Grade-	Troy, 10 <sup>th</sup> Grade-	MI 11 <sup>th</sup> Grade-	12 <sup>th</sup> Grade-	1 <sup>st</sup> Time- 1	Total 2	
IVI	ales- 1	Females-	- 2   8 Grade- 3	9 Grade-	10 Grade-	11 Grade-	12 Grade-	1 Time- 1	Total- 3	
	What do	we do to j	find out if water is poll	uted?						
1.	Р	re-Survey	Correct: 3	Incorrect: 0		Percent: 100%	Percent Difference: No Change			
	Pc	st-Survey	Correct: 3	Incorrect: 0 Percent: 100%			Percent Diner	ence. No change		
	What is:	something	a river needs to be he	althy?						
2.	Р	re-Survey	Correct: 2	Incorrect: 1		Percent: 66%	Daysout Diffey	240/ Image		
	Pc	st-Survey	Correct: 3	Incorrect: 0		Percent: 100%	Percent Differ	ence: 34% Increa	ise	
	Which o	f the follow	ving would indicate a l	nealthy river?						
3.	Р	re-Survey	Correct: 0	Incorrect: 3		Percent: 0%	Dorsont Diffor	ence: 33% Increa		
	Pc	st-Survey	Correct: 1	Incorrect: 2		Percent: 33%	Percent Diller	ence: 55% mcrea	ise	
	The follo	wing pH w	vill indicate an UNHEA	LTHY river:						
4.	Р	re-Survey	Correct: 3	Incorrect: 0		Percent: 100%	Percent Difference: 67% Decrease			
	Pc	ost Survey	Correct: 1	Incorrect: 2		Percent: 33%	ercent: 33%			
	How do	you feel ab	out science?							
6.			Love It	Like It		Neutral	Dislike It		Hate It	
ь.	Р	re-Survey	2	0		1	0		0	
	Pc	st-Survey	2	1		0	0		0	
	How do	you feel ab	out participating in th	is project? // Hov	v did you feel ab	oout participating in th	is project?			
7			Very Excited	Excited	i	ОК	Not So Excited	Not	Excited At All	
7.	P	re-Survey	2	1		0	0		0	
	Po	st-Survey	2	1		0	0		0	



				Steppir	ngstone School f Farmingto	or Gifted Education on, MI			
Ma	ales- 4	Females	- 1 8 <sup>th</sup> Grade- 5	9 <sup>th</sup> Grade-	10 <sup>th</sup> Grade-	11 <sup>th</sup> Grade-	12 <sup>th</sup> Grade-	1 <sup>st</sup> Time- 0	Total- 5
	What do	we do to j	find out if water is poll	uted?					
1.	Р	re-Survey	Correct: 2	Incorrect: 3		Percent: 40%	Dorsont Diffor	ence: 20% Increa	
	Pc	st-Survey	Correct: 3	Incorrect: 2		Percent: 60%	Percent Diller	ence: 20% increa	ise
	What is:	something	a river needs to be he	althy?					
2.	Р	re-Survey	Correct: 5	Incorrect: 0		Percent: 100%	Dorsont Diffor	ence: No Change	
	Pc	st-Survey	Correct: 5	Incorrect: 0		Percent: 100%	Percent Diller	ence: No Change	
	Which o	f the follow	ving would indicate a l	nealthy river?					
3.	Р	re-Survey	Correct: 3	Incorrect: 2		Percent: 60%	Dougout Diffor	ence: 20% Increa	
	Pc	st-Survey	Correct: 4	Incorrect: 1		Percent: 80%	Percent Differ	ence: 20% increa	ise
	The follo	wing pH w	vill indicate an UNHEA	LTHY river:					
4.	Р	re-Survey	Correct: 4	Incorrect: 1	Incorrect: 1		Percent Difference: 20% Decrease		
	Pc	ost Survey	Correct: 3	Incorrect: 2		Percent: 60%	Percent Differ	ence. 20% Decre	dse
	How do	you feel ab	out science?						
6.			Love It	Like It		Neutral	Dislike It		Hate It
0.	Р	re-Survey	1	4		0	0		0
	Pc	st-Survey	2	2		1	0		0
	How do	you feel ab	out participating in th	is project? // Hov	v did you feel ab	out participating in th	is project?		
7.			Very Excited	Excited	l	ОК	Not So Excited	Not	Excited At All
<b>′</b> ·	Р	re-Survey	0	3		1	0		1
	Pc	st-Survey	1	2	1		0		1



				The	eodore Roosevel Wyandotte	•			
Male	es- 9	Females-	20 8 <sup>th</sup> Grade	9 <sup>th</sup> Grade- 8	10 <sup>th</sup> Grade- 8	11 <sup>th</sup> Grade- 3	12 <sup>th</sup> Grade- 10	1 <sup>st</sup> Time- 10	Total- 29
	What d	o we do to j	find out if water is pol	luted?					
1.		Pre-Survey	Correct: 27	Incorrect: 2		Percent: 93%	Dougout Diffor	ence: 4% Increas	_
	Р	ost-Survey	Correct: 28	Incorrect: 1		Percent: 97%	Percent Differ	ence: 4% increas	е
	What is	something	a river needs to be he	althy?					
2.		Pre-Survey	Correct: 26	Incorrect: 3		Percent: 90%	Dougout Diffor	nnas, 10% Increa	
	Р	ost-Survey	Correct: 29	Incorrect: 0		Percent: 100%	Percent Difference	ence: 10% Increa	ise
	Which o	of the follow	ving would indicate a	healthy river?					
3.		Pre-Survey	Correct: 22	Incorrect: 7		Percent: 76%	Dougout Diffor	ence: 7% Decrea	
	Р	ost-Survey	Correct: 20	Incorrect: 9		Percent: 69%	Percent Differ	ence: 7% Decrea	se
	The foll	owing pH w	rill indicate an UNHEA	LTHY river:					
4.		Pre-Survey	Correct: 24	Incorrect: 5		Percent: 83%	Dougout Diffor	ence: 17% Increa	
	Р	ost Survey	Correct: 29	Incorrect: 0		Percent: 100%	Percent Diller	ence: 17% increa	ise
	How do	you feel ab	out science?						
6.			Love It	Like It		Neutral	Dislike It		Hate It
ь.	l	Pre-Survey	22	6		1	0		0
	Р	ost-Survey	29	0		0	0		0
	How do	you feel ab	out participating in th	nis project? // How	did you feel abo	ut participating in thi	s project?		
7.		_	Very Excited	Excited		OK	Not So Excited	Not	Excited At All
<b>′</b> · [		Pre-Survey	23	6		0	0		0
	Р	ost-Survey	26	3		0	0		0



					Troy High Troy,					
Males	s- 23 Female	s- 19	8 <sup>th</sup> Grade-	9 <sup>th</sup> Grade-	10 <sup>th</sup> Grade-	11 <sup>th</sup> Grade- 25	12 <sup>th</sup> Grade- 17	1 <sup>st</sup> Time- 41	Total- 42	
1	What do we do	o find	out if water is poll	uted?						
1.	Pre-Surve	y Co	orrect: 37	Incorrect: 5		Percent: 88%	Doveent Differ	anaa. 10% Inara		
	Post-Surve	y Co	orrect: 41	Incorrect: 1		Percent: 98%  Percent Difference: 10% Increase				
ı	What is somethi	ng a r	iver needs to be he	althy?						
2.	Pre-Surve	y Co	orrect: 12	Incorrect: 30		Percent: 29%	Dougout Diffor	170/ Dage		
	Post-Surve	y Co	orrect: 5	Incorrect: 37		Percent: 12%	Percent Differ	ence: 17% Decre	ase	
1	Which of the fol	owing	g would indicate a l	healthy river?						
3.	Pre-Surve	y Co	orrect: 25	Incorrect: 17		Percent: 60%	Daysout Differ	ence: 21% Increa		
	Post-Surve	y Co	orrect: 34	Incorrect: 8		Percent: 81%	Percent Differ	ence: 21% increa	ise	
	The following pl	l will	indicate an UNHEA	LTHY river:						
4.	Pre-Surve	y Co	orrect: 31	Incorrect: 11		Percent: 74%	Doveent Differ	ence: 9% Increas		
	Post Surve	y Co	orrect: 35	Incorrect: 7		Percent: 83%	Percent Differ	ence: 9% increas	e	
1	How do you feel	abou	t science?							
6.			Love It	Like It	;	Neutral	Dislike It		Hate It	
о.	Pre-Surve	ey .	5	20		12	2		3	
	Post-Surve	ey 📗	6	18		12	5		1	
1	How do you feel	abou	t participating in th	is project? // Ho	w did you feel ab	oout participating in t	his project?			
7.			Very Excited	Excite	d	ОК	Not So Excited	Not	Excited At All	
<b>'</b> .	Pre-Surve	ey .	1	14		20	4		3	
	Post-Surve	ey 📉	3	12		22	2		3	



#### # 5: Why is it important to keep the river healthy and what will YOU do to improve the health?

- "It's important to keep it healthy because it's an area where all runoff water falls to. I will help by not dumping harmful products into the ground in anyway and continue to help take water samples at the Rouge River"—Katelyn, 11<sup>th</sup> Grade, Oakland Schools Technical Campus-S.E.
- "The Rouge River must be kept healthy because important habitats will be lost for aquatic species. I will try to reduce the amount of fertilizer on my lawn"—Neoleen, 10<sup>th</sup> Grade, Crestwood High School
- "It is important to keep the Rouge River healthy in order to maintain biodiversity. I can keep it healthy by protecting ht environment around."—Batoul, 10<sup>th</sup> Grade, Crestwood High School
- "It is important to keep it healthy to keep our fresh water clean and to provide a safe habitat for natural organisms. To keep it healthy I will not litter and will use phosphate free fertilizer"—Jake, 12<sup>th</sup> Grade, Troy High School
- The Rouge River is an entire ecosystem in our back yards that support many species. We must protect it to protect the species and I will do my part to clean up and reduce pollution in the Rouge."—Katie, 12<sup>th</sup> Grade, Troy High School
- "There are organisms that live in this river. An unhealthy river could harm and/or kill them. We would want to live in a healthy habitat, so they should have the same opportunity. I would try my best to eliminate all of the pollution in the river"—Destyni, 9<sup>th</sup> Grade, Chandler Park Academy High School
- "It is important to keep the river healthy because if it's not it will affect the bugs and things that live in that habitat. I would clean it to keep it healthy"— Zaria, 9<sup>th</sup> Grade, Chandler Park Academy High School
- "It is important to keep high levels of oxygen and a low amount of runoff to keep organisms alive and allow more of the organisms to prosper"—Alexis, 12<sup>th</sup> Grade, Plymouth High School
- "The rouge is our water supple! I will stay informed and inform others of its importance and volunteer to help keep it clean"—Ellie, 12<sup>th</sup> Grade, Plymouth High School
- "Because it provides water for us and affects the plants and animals around us. I will not litter and try to keep others aware to do the same."—Olivia, 9<sup>th</sup> Grade, Novi High School
- "It is important to keep the environment and home we line in clean not only for us but for plants and animals. I will watch for bad fertilizers and clean storm drains"—Amy, 10<sup>th</sup> Grade, Novi High School
- "Keeping the Rouge healthy will also keep the surrounding environment healthy and help protect wildlife. I will make sure that people don't litter and they manage hazardous waste properly."—Michaela, 9<sup>th</sup> Grade, Theodore Roosevelt High School



#### #6: What do you think you will enjoy/not enjoy about the REP?

- "I enjoyed testing the water. There was nothing that I didn't enjoy"—Nikcol, 11<sup>th</sup> Grade, Oakland Schools Technical Campus, S.E.
- "I enjoyed performing all the test and being outdoors. I enjoyed learning new things"—Helen, 10<sup>th</sup> Grade, Crestwood High School
- "I enjoyed testing for the water and understanding the status of our beloved Rouge River. The fecal coliform test was my favorite!"—Haidar, 10<sup>th</sup> Grade Crestwood High School
- "It was interesting to learn about all the factors that impact the quality of a body of water and how to run the tests"—Tyler, 12<sup>th</sup> Grade Troy High School
- "I loved learning the process of testing a body of water. I think it is very interesting to find out the overall quality of the water."—Victoria, 11<sup>th</sup> Grade Troy High School
- "I liked the fact that we went and interacted with nature"—Caitlin, 11<sup>th</sup> Grade, Troy High School
- "I enjoyed the nature and having fun with science!"—Shakira, 8th Grade, Detroit Academy of Arts & Sciences
- "I enjoyed discovering the types of bugs"—Jiyal, 8<sup>th</sup> Grade, Detroit Academy of Arts & Sciences
- "I enjoyed the fact that I got a chance to get in the water and see all types of bugs and fish and I saw a turtle and some butterflies. I enjoyed watching nature in its course"—Cristina, 12<sup>th</sup> Grade, Chandler Park Academy High School
- "I enjoyed every part of the Rouge Education Project"—Krystal, 10<sup>th</sup> Grade, Chandler Park High School
- "I enjoyed learning about the area that I have been living in a lot of my life and also what effect our actions have on certain elements of the river"—

  Brook, 12<sup>th</sup> Grade, Plymouth High School
- "I enjoyed testing to find out how healthy the river is. Also the history"—Kaitlyn, 12<sup>th</sup> Grade, Plymouth High School
- "I enjoyed the hands on experience of the Rouge"—Collin, 9<sup>th</sup> Grade, Novi High School
- "I enjoyed doing the benthic tests and getting hands on with chemical test"—Tiffany, 9<sup>th</sup> Grade, Novi High School
- "I enjoyed spending time with friends, exploring a wonderful aspect of science and seeing a lot of interesting plants and animals"—Brendan, 11<sup>th</sup> Grade, Theodore Roosevelt High School
- "I enjoyed being able to help out my community and spending time outside in the fresh air"—Lauren, 12<sup>th</sup> Grade, Theodore Roosevelt High School



#### **Post-High School Education Survey Analysis**

Overall the Rouge Education Project had one post-high school class. This college course is general science for education majors. Below are the results for that class:

				U		chigan-Dearborn orn, MI				
ľ	Males- F	emales-	8 8 <sup>th</sup> Grade-	9 <sup>th</sup> Grade-	10 <sup>th</sup> Grade		de- College- 8	1 <sup>st</sup> Time- 8	Total- 8	
	What do w	e do to fi	nd out if water is poll	ıted?						
1.	Pre-	Survey	Correct: 5	Incorrect: 3 Percent: 63%			Dorcont Diffe	Percent Difference: 37% Increase		
	Post-	Survey	Correct: 8	Incorrect: 0		Percent: 100%	Percent Dille	refice. 37% inc	rease	
	What is son	nething o	a river needs to be hed	ılthy?						
2.	Pre-	Survey	Correct: 3	Incorrect: 5		Percent: 38%	Dorsout Diffe	rence: 25% De	0.4000	
	Post-	Survey	Correct: 1	Incorrect: 7 Percent: 13%			Percent Dille	rence: 25% De	crease	
	Which of th	ne followi	ing would indicate a h	ealthy river?						
3.	Pre-	Survey	Correct: 4	Incorrect: 4		Percent: 50%	Downsont Diffe			
	Post-	Survey	Correct: 3	Incorrect: 5		Percent: 38%	Percent Dille	rence: 12% De	crease	
	The followi	ng pH wi	II indicate an UNHEAL	THY river:						
4.	Pre-	Survey	Correct: 6	Incorrect: 2		Percent: 75%	Dorsout Diffe		0.000	
	Post	Survey	Correct: 4	Incorrect: 4		Percent: 50%	Percent Diffe	Percent Difference: 25% Decrease		
	How do you	u feel abo	out science?							
6.			Love It	Like It	t	Neutral	Dislike It		Hate It	
о.	Pre-	Survey	2	4		2	0		0	
	Post-	Survey	2	5		1	0		0	
	How do you	u feel abo	out participating in thi	s project? // Ho	w did you feel d	about participating	in this project?			
7.			Very Excited	Excite	d	ОК	Not So Excited	ı k	Not Excited At All	
/.	Pre-	Survey	0	4		4	0		0	
	Post-	Survey	1	3		3	1		0	



#### # 5: Why is it important to keep the river healthy and what will YOU do to improve the health?

- "It is important to keep the Rouge River healthy because it is a part of our community. In order to keep the river healthy I will not limit the amount of fertilizer I put on my soil."—Lauren
- "It is important for the health of anyone around the river and for the health of our water supply because it empties out into a large body of water"—

  Jacqueline

#### #6: What do you think you will enjoy/not enjoy about the REP?

- "I enjoyed learning the tests and seeing why the river isn't good"—Catherine
- "I enjoyed being outside and being active in the lesson. I will not enjoy seeing how polluted our river is"—Amanda