Q.1. "I like science class"	Yes - 64
Q.1. Thre science class	No – 2
	Sometimes – 13
	Sometimes 13
Q. 2. "I think science is important"	Yes - 64
Q. 2. I dimini delende la impersant	No - 1
	Sometimes – 14
	Sometimes 11
Q.3. "If I were the science teacher, I	Doing lots of experiments - 35
would make science interesting by:	Make chemicals – 6
3 7	Doing projects – 6
Analysis:	Explosions – 5
Our students overwhelmingly want to do	Having fun – 5
hands-on activities, experiments and	Going outside - 4
projects.	Making potions – 4
There is some misunderstanding about	Going on field trips – 4
what constitutes science (potions,	Making rockets - 3
chemicals, time machine,	Doing volcanoes – 3
explosions/bombs) but overall, their	Flying a plastic plane outside – 2
suggestions are all fairly reasonable.	Making paper airplane - 2
	Going on a plane - 2
We now plan to tweak exit survey to ask	Show more Bill Nye videos - 2
if their teacher has made science	Mixing things together – 2
interesting this year, and how.	Have more classes outdoors
	Make a time machine
	Make a tornado in a bottle
	Take a time-lapse of a plant growing
	I would do science once a month
	Having timed memory games
	Get people to look at worms
	Do projects, no experiments
	Build bridges
	Helping my students with things they don't
	understand Make a hoverboard
	Use magnets
	Drawing science pictures in science
	Games
	Making a bomb of sprinkles and pink
	Making robots
	Using lots of expression
	Explain things really well
	Modelling things while I explain them
	Doing space models
	Doing flying and electricity
	Fly a plane to teach how the plane works

Q.4. "List three things you learned in science class this year"

Analysis:

Grade 4 students are very familiar with the concepts covered in the first units of Science. Grade 3 students show a fair understanding of the soil unit. The Grade 6 field trip clearly had a huge impact on their science learning. Many students do not seem to grasp the difference between what they did and what they learned (dioramas)

This question may be re-worded to "three facts you learned in science this year" for the exit survey.

Carnivores, Omnivores, Herbivores - 17
Food chains and food webs - 17
Habitats - 10
Drag – 8
Lift - 7
Beavers - 7
Worms eat many things - 7
Thrust - 6
How planes work - 6
Parts of a plane - 6
Aerodynamics - 4
Inventors of planes - 4
Dioramas - 4
There are a lot of planes – 3
Soil has different components - 3
How to make a rocket - 3
That Amelia Earhart flew solo – 3
Forces of flight – 3
Gravity – 2
Air exerts pressure – 2
Drag slows you down – 2
Gravity pulls you down – 2
Jet stream – 2
How flight has changed over time - 2
How to fly - 2
Animals - 2
We saw the worms – 2
We gave the worms food – 2
Worms make compost – 2
There are many kinds of soil - 2
How beaver dams are made - 2
How to fly - 2
Life cycles
We learned about science
That frogs are carnivores
Grasshoppers eat grass
What animals eat
We touched the worms
I learned about compost
Worms eat organic matter
Predator and prey
Worms are cool
Food gets mouldy after a while
Worms dry up in the sun
Worms can drown in water
Worms can dig far down
Soil is important
I learned about worms

	Producers and consumers		
	There are no rabbits in Newfoundland		
	ris Hadfield		
	It is way more interesting		
	To be smart		
	By working hard and paying attention		
	How blimps are made		
	What is in a cockpit		
	Four forces		
	Plane crashes		
	How to navigate a plane		
Air path			
	Rosella Bjornson was the first female pilot		
	Planes stall if you fly up The four forces are thrust/drag, lift/gravity		
	Wright brothers invented planes		
Types of human built flyers			
	How to make an object more aerodynamic		
	That stalling is drag		

Analysis of student drawings of science classes. (Note: Some drawings may count in more than one category)

The majority of Grade 3 & 4 students depicted science class with students sitting in desks and/or teacher lecturing. This is quite contrary to what we are trying to achieve. Grade 6 students, for the most part either depicted their filed trip to the North Atlantic Aviation Museum or their bottle rocket testing. Science materials we only visible about half the time, and were more likely to be seen in the Grade 3 & 6 drawings. Grade 4s had the most depictions of science textbooks.

In Grade 3 & 4, only one drawing showed students actively involved in an activity (soil exploration), and five showed students presenting to the class. Compared to 18 drawings with teacher lecturing, and 10 with teachers demonstrating; it becomes clear that our students see Science class as teacher-directed, not student-centered.

Teacher lecturing – 20

Teacher doing a demonstration – 10

Teacher sitting at own desk - 5

Students in desks – 25

Students out of desks - 27

Students completing an activity – 17

Science materials visible - 36

Science textbooks visible - 12

Students presenting dioramas – 5

Students on a field trip - 11

Grade 6 drawings focused mainly on two	
days: the field trip and the bottle-rocket	
testing.	