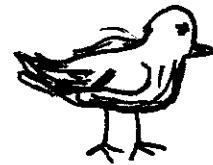


# Birdwalk



Time:

6-8:30 am

Where: Brown

Middle School

Leaders:Lynda Kovalchuk  
617-558-5567Jeff Thuenemoeder  
617-610-5566

What to bring: water, hiking boots, a snack if you want, rainy gear, binoculars if you have them, a bird-ID book if you have one, 1st aid, **[SNICKERS]**

Make sure to get enough sleep tonight, because tomorrow we'll be heading out of Brown pretty early!

What's the reason behind strange timing? Well, many

birds like to wake up in the wee hours of the morning because

that is when their food (mostly insects) is most active, and

because they want to avoid the hot midday sun. Many of our

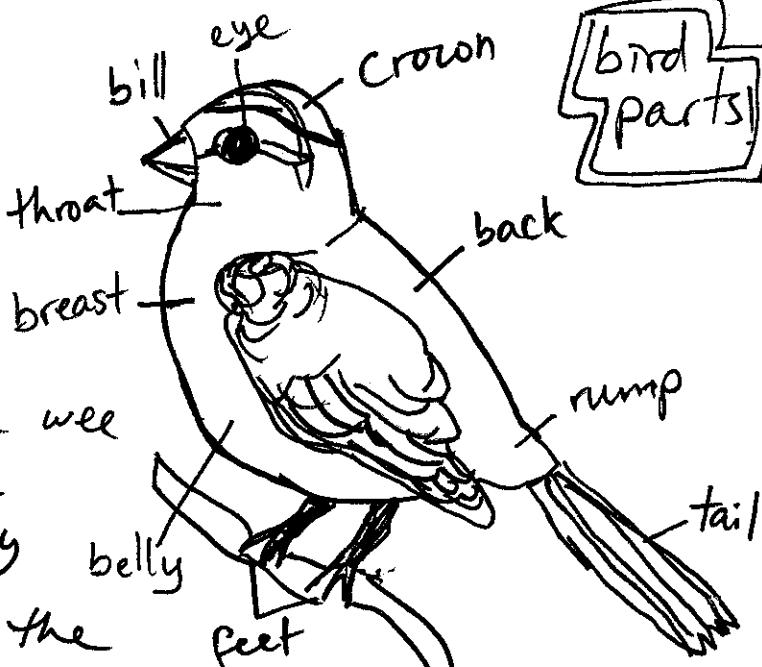
~~friends~~ aren't around later in the day, so the early morning is our best chance to get a good look at them.

Questions of the Day:

- How are bird bones different from human bones?

- What are the 3 main types of feathers that birds have?

- What was Zidane thinking?



In case of an emergency, your child will be brought to: Newton Wellesley Hospital 617-243-6000

This program must comply with the regulations of the Mass Department of Public Health

# THE BIRDWALK

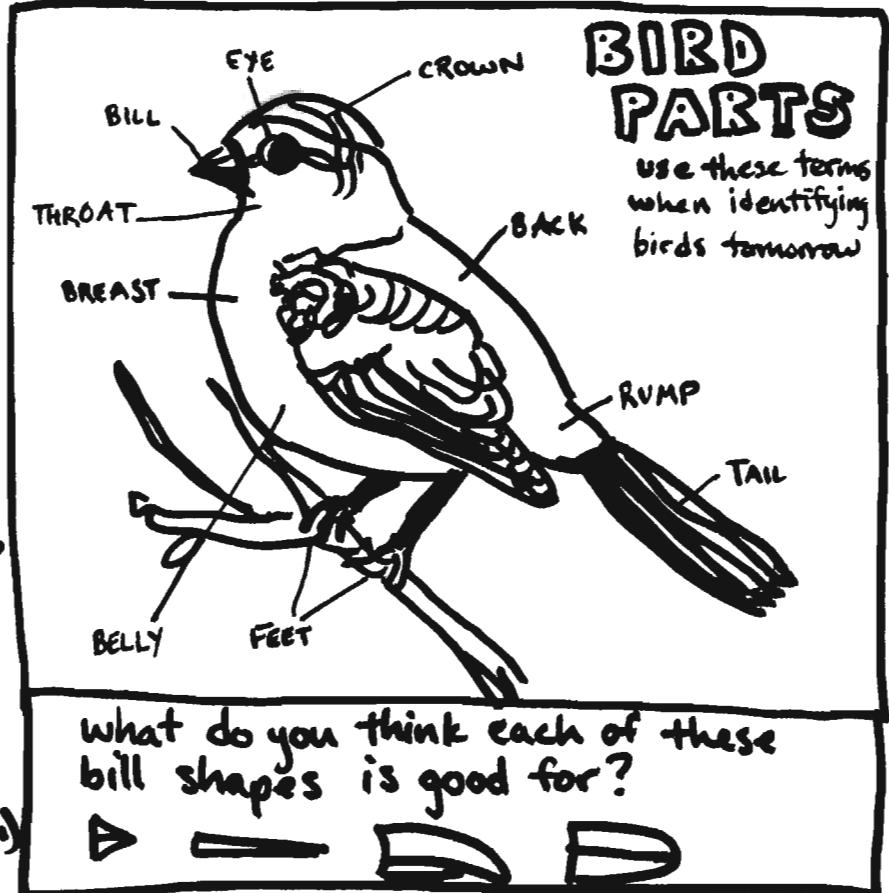
TIME: 6 - 8:30 AM

## LEADERS:

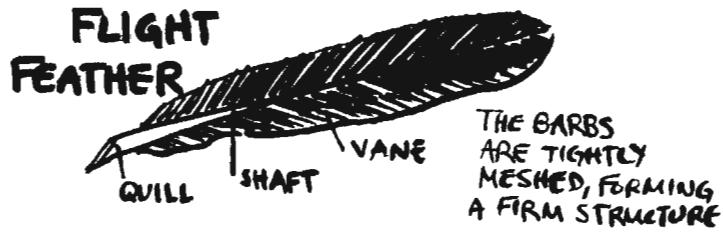
JONATHAN RIVNAY 617-645-1379  
 JEFF HUENEMOERDER 617-332-9506

## EQUIPMENT:

Field Kid, H<sub>2</sub>O, Hiking Boots,  
 A light snack, a good night's  
 sleep, field guide or book on  
 birds (if you have one),  
 binoculars (again, if you have 'em)



The first thing I'm sure you're asking yourself is: 'by golly-gosh-darn, why are these crazy leaders making me wake up so early?' Well, it's quite simple really. Many little birds like to avoid the sun, they also feed on the active insects that wake up early too. Since few people are up at this time, it is the perfect time for us to observe them near the marshes around Brown.



## BODY FEATHER



## FEATHERS

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This program must comply with the regulations of the Massachusetts Department of Public Health and must be licensed by the City of Newton Health Department.

# GOOD MORNING! BIRD WALK

<sup>so be on time!!</sup>  
5 AM - 9 AM

Wendy Gross 965-9821  
Tom Brandon 527-1195  
EQUIPMENT ~ Boots,  
everyday "stuff" - first aid kit,  
compass etc., { old guides  
(only from home, too...),  
binoculars or Binoculars  
if you have access to either.



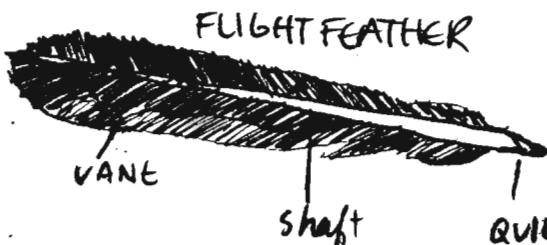
## WHY so early?

The birds are up, the  
people are not. This is  
an ideal time to spot  
less sociable birds not →

## ADAPTATIONS

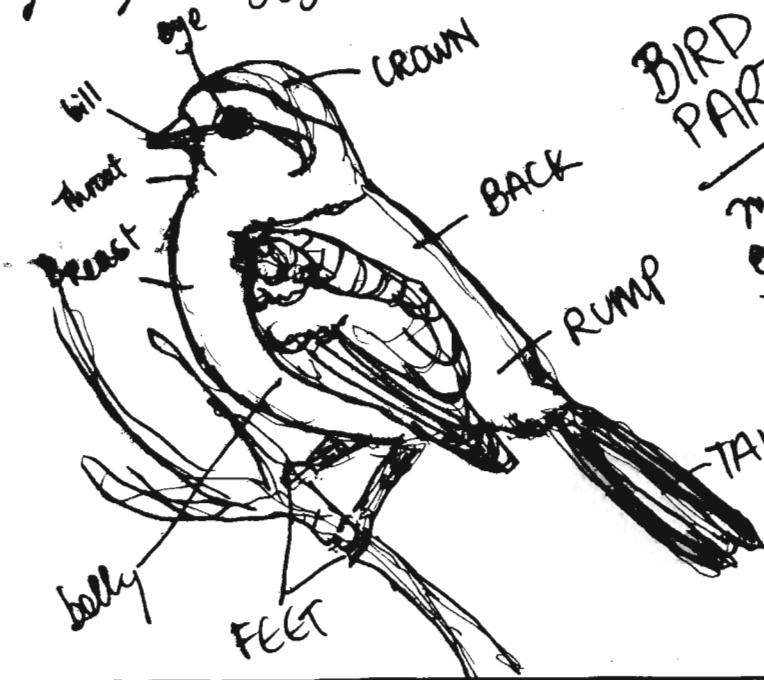
Birds have less predictable  
adaptations than some other  
animals...

Originally birds (or whatever  
you might call them, then...) had a scaly covering, like reptiles. From this developed a covering of FEATHERS. Each feather has rows of branched barbs which hook together.



On the long flight feathers, the barbs are tightly meshed, forming a firm structure.

seen at later hours...  
Besides Newton South looks different this early... (or maybe that's just your fuzzy vision...)



## BIRD PARTS:

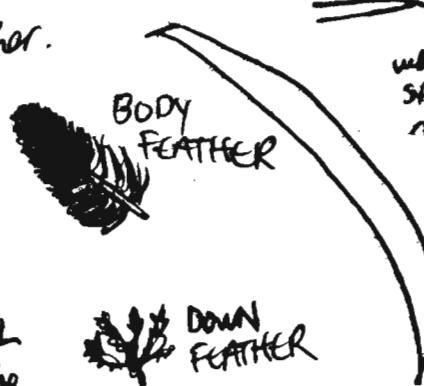
make them easier to identify now you can say, "His throat was red, not its breast!"

- There are also adaptations of the FEET - these vary with species.

- how might birds' feet vary??
- How CAN ONE tell MALE BIRD from FEMALE?
- HOW ARE BIRD BONES different from ours?

→ what are air sacs?

→ WHAT DO BIRDS EAT?  
what difference do BILLS and their shape make? What are these bill shapes good for? ▷ ? = ?



which one is for seeds?  
stomaching algae? sipping nectar? tearing flesh?

Other than PHYSICAL adaptations,  
**BIRD PERSONALITY**  
and  
**SOCIAL STRUCTURE**  
are fascinating. What can you observe about this?

# Birdwalk

Leader: Gail Stanton

Phone: 964-5857

Time: 6 AM - 9 AM

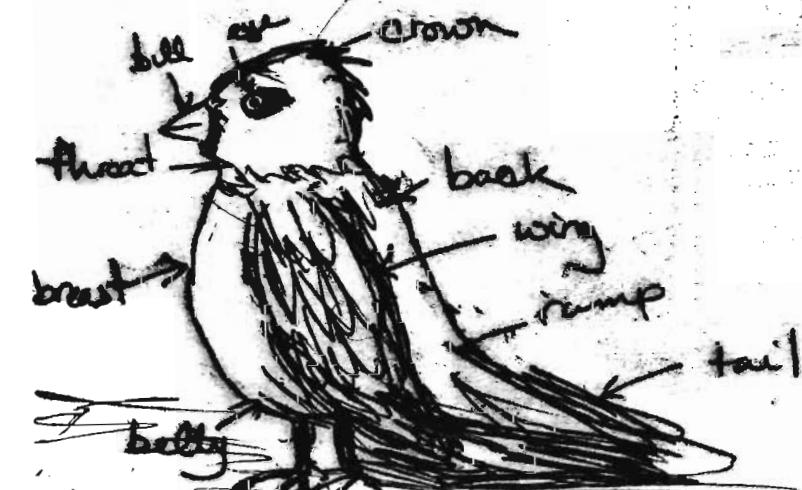
Equipment: Field kit

No lunch, Boots, Breakfast

(Bagels and Doughnuts and such) Any Bird books you own, field kit, Binoculars.

## Objectives:

We will be looking at birds (big or surprise). We will be touring around Noritcate (Nahanton) Park. This season we will be leaving so wonderfully early this morning is because we have to see the birds at a time when people normally wouldn't be bothering them.



## Functions of Bill adaptions

- Conical - seed eaters
- Hummingbirds - reaching into flowers
- Fly catching - flying bugs
- Duckbill - Straining algae
- Bald eagle bill - tearing flesh
- Sand Piper - earthworm insects

Feathers: provide warmth and aid in flight

- How does feather color relate to a bird's habits + habitat?

- On Newton Highlands

STREET becoming WINCHESTER



Soccer Field



# Birdwalk

Date: Wed. July 10, 2002

Meet @: Brown Middle School

**TIMES: 6-8:30 AM**

Equipment: Field Kit, H<sub>2</sub>O, boots, binoculars (if you want), bug spray, a snack if you want, bird books if you've got 'em

-----  
early, put on our wednesday bird-watchin' best, and go identify some of our fine feathered friends! Why so early you ask? Because most birds come out early in the morning to find food etc. and don't come out later. That's why we have to catch them so early! We will see native species of birds around Brown but we will also see invasive species, like sparrows, which came here from Jolly Old England and bred like crazy, that's why there are sooooo many.

- smallest bird: Bee Hummingbird, it's only 2 inches long and weighs  $\frac{1}{10}$  of an ounce

- The feather part of a feather forms the flat and smooth surface by locking together like velcro
- largest bird: Ostrich, it can grow to 8ft. and weigh up to 300 pounds!
- Birds are descended from reptiles

See here:



So get psyched and get excited for getting up early and seein' some birds.

Cool!!!

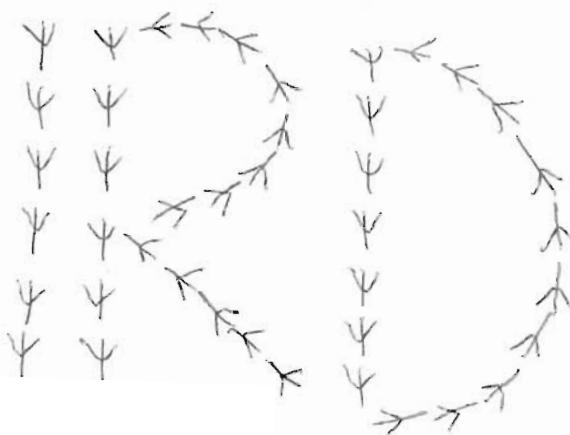
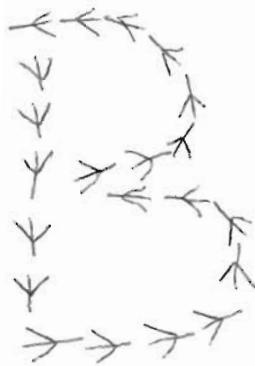
Leaders: Amelia "6 is too early" Runyan  
 617-244-8836  
 Joey "6 is too late" Backer  
 617-  
 Gabe "6 is just right" Yospin  
 617-969-3966



-----  
It's time to get pumped because tomorrow we're all gonna get up super-

Tripslip #5

Date: July 11, Wednesday 2011



TIME:

6 - 8:30 AM  
AM  
Yes, that says 6AM!

Location: Brown Middle School

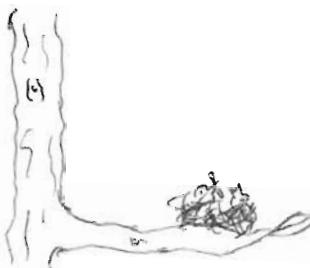
Leaders: Sarina (969-3966)  
Jeff (332-3617)

Equipment: field kit, boots, water,  
Shack, bug spray, binoculars  
and bird books if you have them



← feathers

me being tired  
from walking  
up to be  
at Brown at  
6AM



(A variant  
of designs)

I don't know about you, but my favorite thing to do at 6 in the morning is not sleepin', but lookin' for some birds with Envi-Sci. We're lucky enough to be close to a vast wetland area that is by Newton South. Wetlands are havens for many birds, especially in the morning when they are lookin' for some scrumptious insects and what not. We will try to identify as many birds as possible by seeing how they look and also listening to the sound of their calls. I've seen a many birds in my years at Envi-Sci, so hopefully we can see some more!



↑  
is this  
a bird?

Some cool bird info:

- The smallest bird is the Bee Hummingbird which is only 2 inches long and weighs 1/10th of an ounce
- The largest is the ostrich, which can grow to 8 ft. and weigh up to 300 pounds!
- Birds are descendants from reptiles
- The Arctic Tern flies over 35,000 miles a year!  
↑ a bird, not a plane. It also flies by itself, not sitting in cockchucks, either.



Tripslip #5

Well, it's time to break out the binoculars and embark on the Annual Envi-Sci Birdwalk! And just as the ancient proverb advises - "the early student gets the bird" - we're going to get a jump on the day so we can maximize our sightings of those winged creatures we so reverently call "birds." Yes, that's right; we're meeting at 6:00 in the AM in order to see the birds that aren't as active during the day. Don't forget to brush up on those birdcalls!

- Why are there so many different species of birds in such relatively small niches?
- Why can birds fly and humans can't??

HOW DOES ONE ID. A BIRD IF ONE CANNOT SEE IT VERY CLEARLY?  
 Well, birdwatchers can recognize species by characteristics like outline: and by their calls: eetraa-laa-dippity-doo??

*Can't miss the Envi-Sci Birdwalk!!*

SOME BIRDS WE PROBABLY WILL SEE

NORTHERN CARDINAL  
The brightly colored cardinal actually sings all year to protect its turf.

RED-TAILED HAWK  
This super recognizable hawk has bright red tail feathers (hence the name).

AMERICAN CROW  
Packs of crows often follow their enemy, the hawk, around just to piss them off.

SOME BIRDS WE PROBABLY WON'T SEE

EMU  
This razor-clawed giant can't fly and generally sticks to its native habitat: Australia.

ARCHAEOPTERYX  
As the first known bird, don't expect to see this demi-dino 150 million yrs. later.

RESPLENDENT QUETZAL  
Hee Hee. Look at how wuffy it is. And it has so many tail feathers. Hee Hee.

Mmmmore... sugar...

# THE BIRD WALK

6 - 8:30 AM!! #5

Brown M.S.

big wing bird  
COME

Leaders: Garbett: 617-332-1362  
Joey: 617-969-0288

Equipment: boots  
field kit  
 $H_2O$

binoculars (optional)  
rain gear

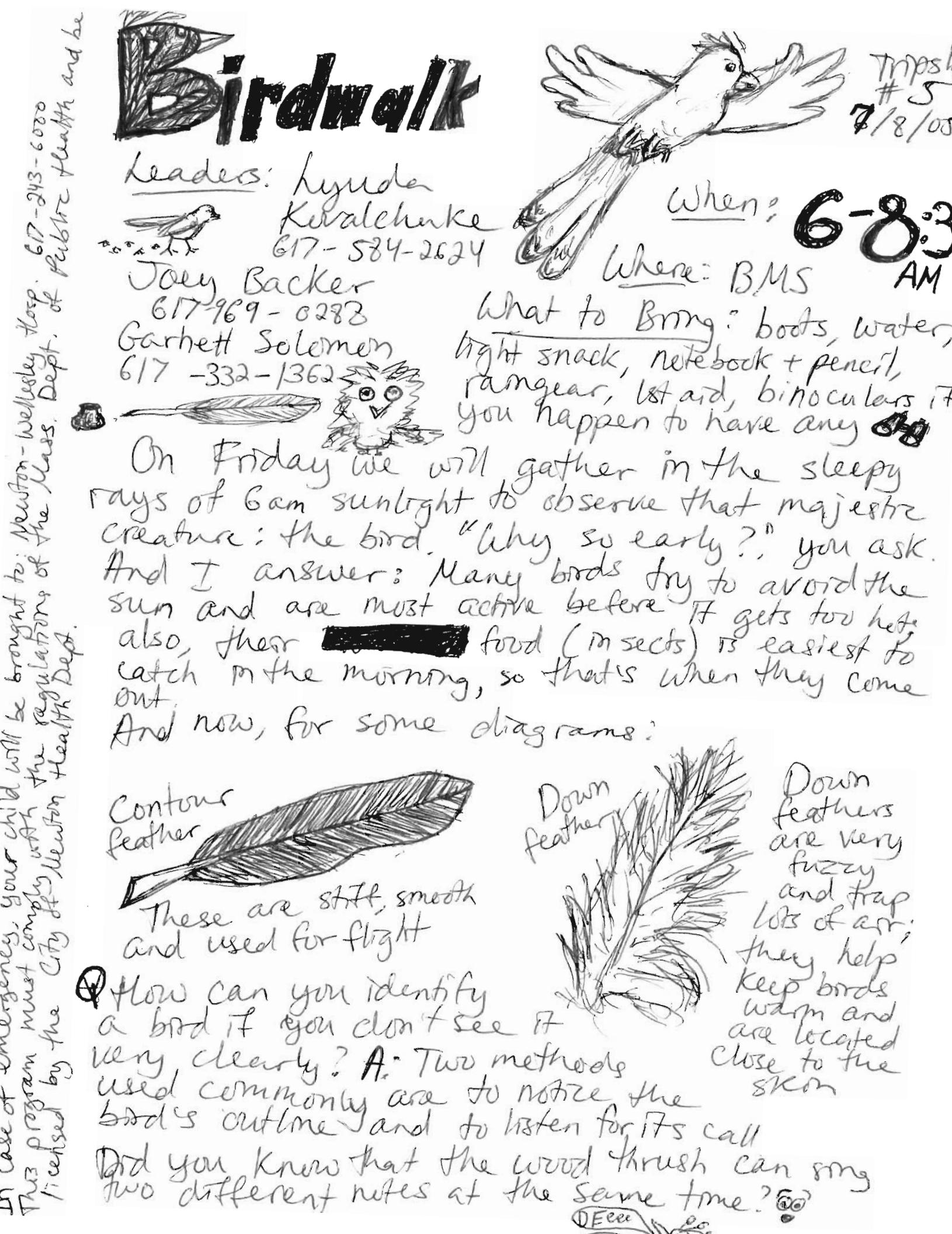


Get P-U-M-P-E-D up! We are going on a crazy cool bird walk around Brown middle school. We will have a bird guide for reference, if you have any of your own, feel free to bring them! Bring glasses if you have need them because we will be searching near and far to spot all 8,700 diff species of birds!!!  
I wish you the best of luck

- G-SO

In case of Emergency, your child will be brought to:  
Newton Wellesley Hospital: 617-243-6000.

This program must comply with the regulations of the Massachusetts Dept. of Public Health and must be licensed by the city of Newton Health Department.



# THE Birdwalk

Leaders: Julie: 964-7248  
Gabe

equipment: boots  
field kit  
- H<sub>2</sub>O -

small snack

A pair of binoculars if you have them.



© Brown

→ Julie's new species  
of a bird; I think?

This can be a very exciting trip. We will be walking around brown, south and oak Hill, in search of birds. We can also see where different birds tend to hang out. We may find different birds near the marsh by south then over in the fields. We will bring along a bird guide so we can identify any birds that don't look familiar. If you have binoculars, they may be cool to bring so you can get a closer look.

Fun Fact: There are over 8,700 different species of birds in the world.

So may my creation does exist.

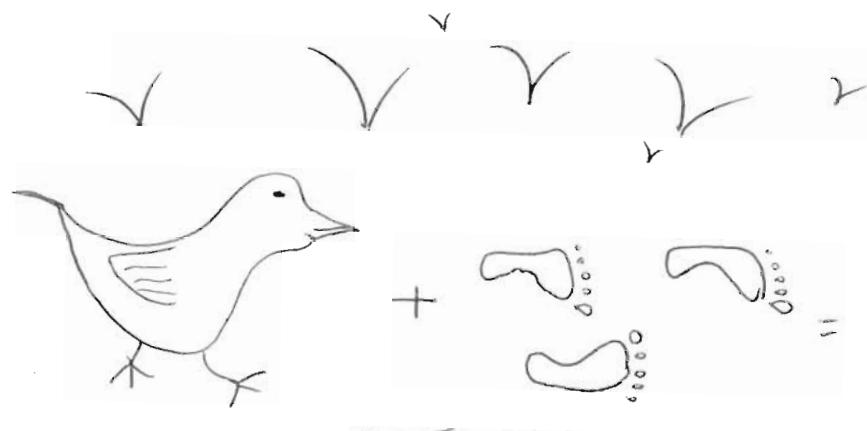
- Over 1,000 species of birds are extinct.
- bird feathers are made of keratin which is the same protein found in human hair.

Tripslip #7

7/12/2000

Times: 6-9

Place: BMS



Leaders: Gabe Yospin

969-3966

Julie Greenwald

964-7248

Equipment: Field kit, H<sub>2</sub>O, perhaps a light snack, perhaps binoculars, a good night's sleep, burlap sack of feathers for camouflage (~50 lbs)

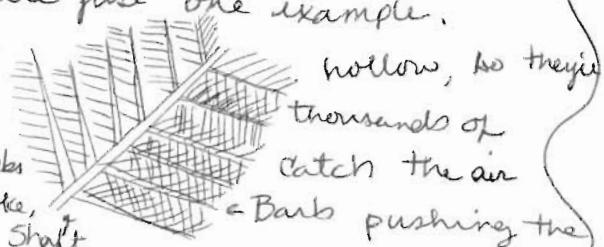
## BIRDWALK

(Get it)

The classic symbol of freedom - the bird. Today, we're waking up early (so go to sleep early) to track down, observe, and identify some of the hundreds of bird species that make their homes around Brown. The first thing that you're probably wondering is: "Why do I have to wake up so daggity-darn-early!?! Well, little birds like to avoid the hot sun if possible, and since many insects are more active around sunrise, this is the logical time to be getting a balanced breakfast (see quotes below). Well bring binoculars and bird books, and see if we can find some cool birds.

Now for some science. Flying is really tough work, so to do it, birds had to evolve some really awesome features. Their feathers are just one example.

All the parts are very light, and interlocking bars on every stroke, shaft hollow, so they're thousands of catch the air - Bars pushing the bird up. This is light, and strong, and feathers would be useless if they weren't both. Just like their feathers, birds have hollow bones, which makes them much lighter.



Think about this stuff, and talk more tomorrow, bright and early.

with

A wealth of avian quotes  
[compiled by Gabe "The Enormous Head" Yospin]

- The Early Bird Catches the Worm.

- William Cander

- Don't stand under a bird, or you will get a turd.

- Sarina Yospin

Okay, so I could have come up with more, but they were all really long and boring.

- Gabe

Meeting Place: BMS

Time: 6-8:30

Leaders: Sarina Yospin

(617) 969-3966

Jeff Wong.

(617) 332-3617

Tripslip #5

bird tracks

Equipment: Field Kit,  
H<sub>2</sub>O, boots, binoculars  
(if you've got 'em)

Date: 7-11-01

AM

designer feathers, →  
similar to those often  
worn by famous birds



various types  
of playground  
equip... oops.  
Wrong tripslip.



It's the trip critics  
are calling...

"Dazzling!" - Envi Sci Times

"Eye-opening!" - Envi Sci Journal

"Really early" - Envi Sci Weekly

so many beaks, so little time

Ever wonder what the BMS area looks like bathed in the day's first rosy rays? Well, now you have the opportunity. But as the saying "The Early bird catches the worm" implies, you will benefit from the early time of the trip by having an easier time catching your breakfast of earthworms. But that doesn't mean we will stop making fun of you for eating them.

Actually, we do the bird walk this early because there are lots of birds out early in the morning that don't come out much when it gets later into the day.



Questions to Ponder:  
Why are there so many different bird beaks?  
How can birds be so light if they have so many bones and such powerful muscles for flight?  
In what biomes on Earth do birds live?  
What purpose do tail feathers serve?  
Which birds cannot fly?

A Preview of  
Interesting Birds we  
might see:



Red-Tailed Hawk

- What noise does it make?
- How does it fly?
- How can it be identified, speaking feather-wise?



Mourning Dove

- What is its song?
- How does its coloring help it survive?



Black-capped Chickadee

- From its beak size and shape, what do you think it eats?
- Who put the ram in the ram-a-lam-a-lam-a-lam?

... AND SO  
MUCH MORE!

TRIPSLIP #5  
10 July 1990  
BIRDWALK

Leaders: Rachel and Garen  
(332-7372) (332-4015)

Times: 6:00 to 9:00  
(in the morning)

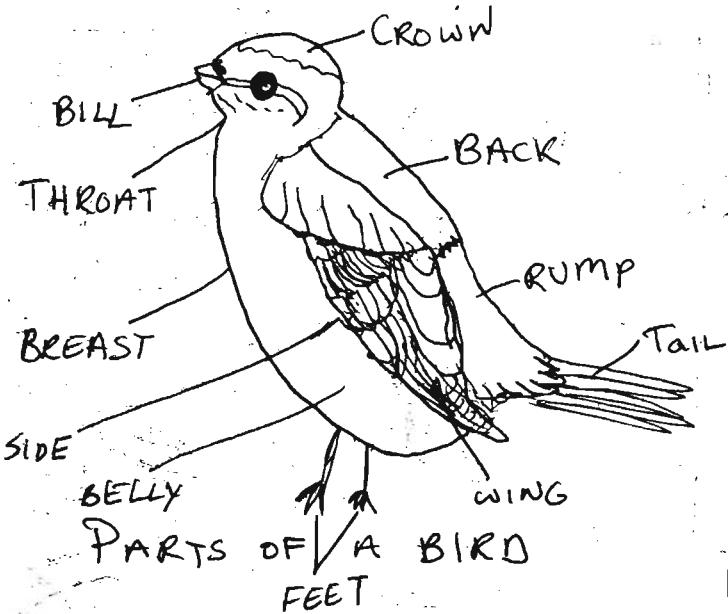
Location: Novitiate (meet at South-  
we'll go from there)

# BIRDWALK

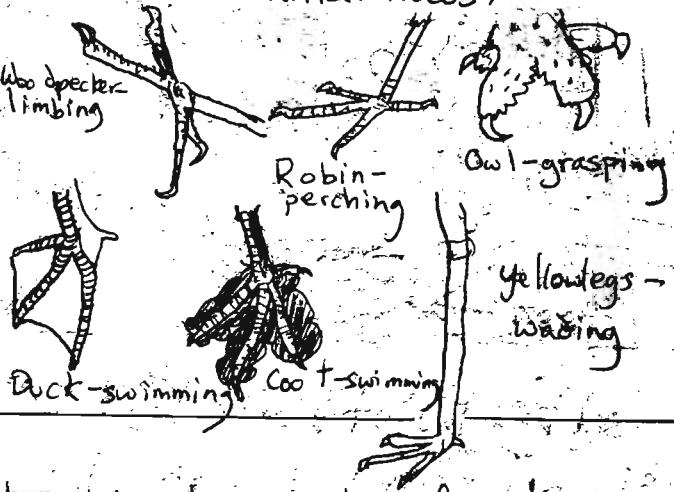
EQUIPMENT: BOOTS  
FIELD KIT  
BREAKFAST

You may also want to bring  
something to sit on and  
binoculars (if you have them)

The first bird known to man is the archaeopteryx (now extinct), which lived ~~over~~ 150 million years ago, and which was both a bird and a reptile. There are now more than 20,000 species of birds, which are grouped into 27 orders. There are 20 orders in North America. These are divided into 75 families, which encompass about 1500 species.



BIRDS HAVE all adapted to their environments in many ways. In addition to having specialized bills to suit their needs, birds' feet also reflect their environmental needs.



- Average length = 10 inches

- Male birds usually have bright plumage, but females are usually dull in color. Females, however, have the prettier song.

- Birds have light, hollow bones

- Very rapid heartbeat

- Ducks' feathers have oil on them, which is why they stay relatively dry

