

Common Core State Standards and Data Driven Instruction

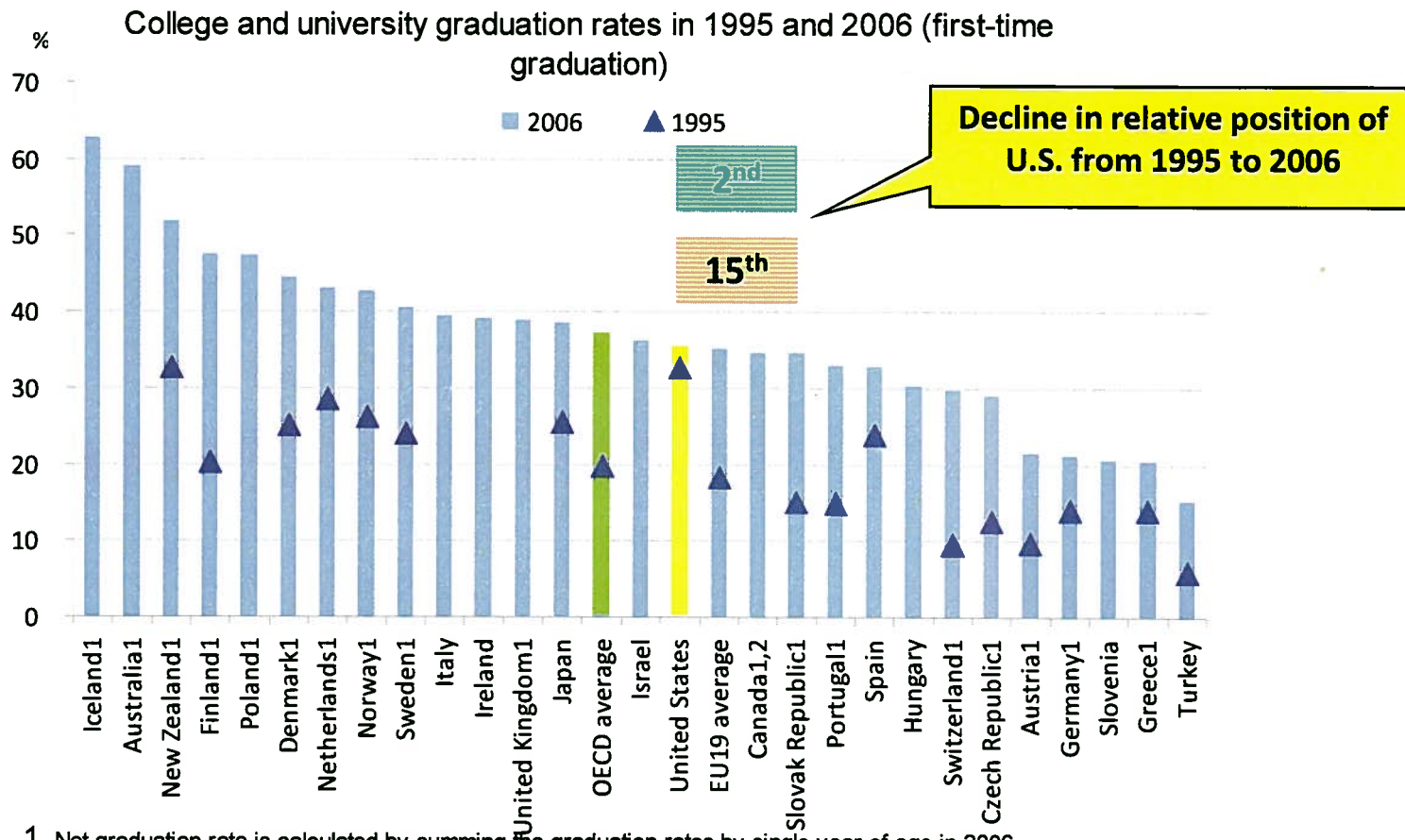
Kim Skillen and Danielle Sheridan

February 28, 2012

History

- Governors' Council
 - College and Career Readiness (CCR)
 - Race to the Top (RTTT)
-

International Competitiveness



1. Net graduation rate is calculated by summing the graduation rates by single year of age in 2006.

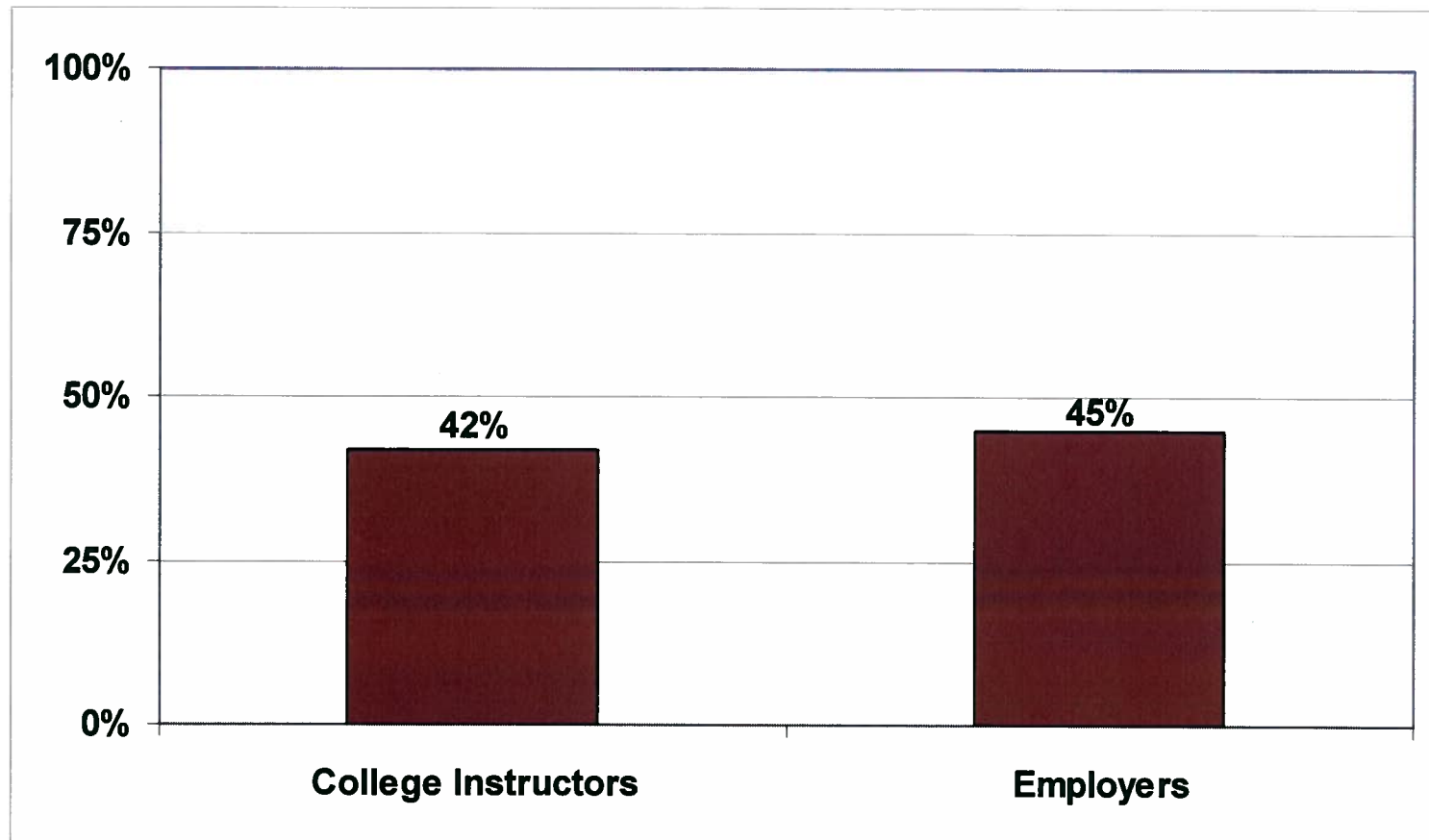
2. Year of reference 2005.

Countries are ranked in descending order of the graduation rates for tertiary-type A education in 2006.

Source: OECD. Table A3.2 See Annex 3 for notes (www.oecd.org/edu/eag2008)

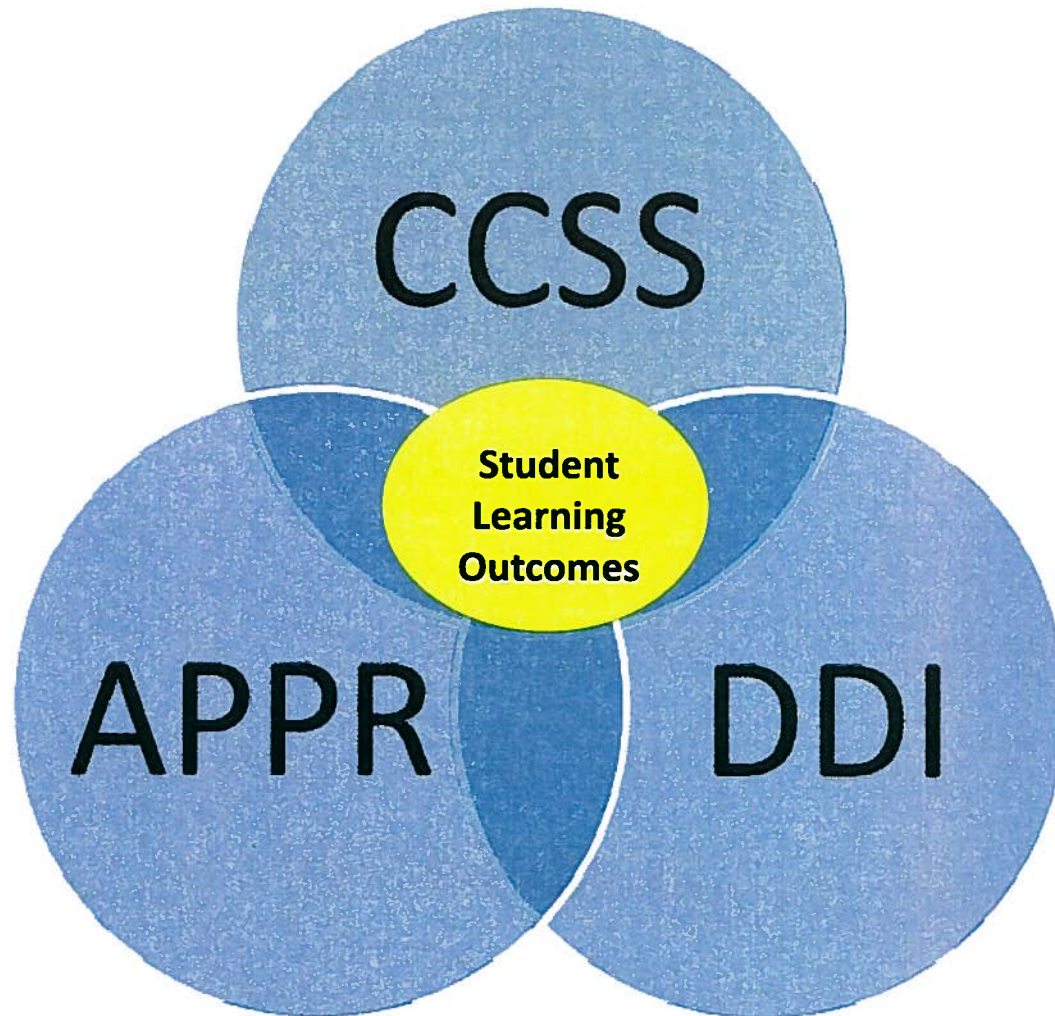
College Instructors and Employers Say Graduates Are Not Prepared for College and Work

- Average estimated proportions of recent high school graduates who are not prepared



Source: Peter D. Hart Research Associates/Public Opinion Strategies, *Rising to the Challenge: Are High School Graduates Prepared for College and Work?* prepared for Achieve, Inc., 2005.

Race to the Top Components



Instructional Shifts for the Common Core

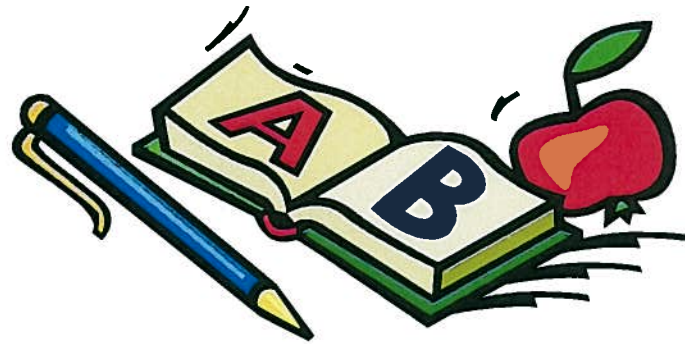
Six Shifts in ELA/Literacy

- Balancing Informational and Literary Text
- Building Knowledge in the Disciplines
- Staircase of Complexity
- Text-Based Answers
- Writing From Sources
- Academic Vocabulary

Six Shifts in Math

- Focus
 - Coherence
 - Fluency
 - Deep Understanding
 - Applications
 - Dual Intensity
-

The CCSS for ELA/Literacy: Implementation in Deer Park



Sample Assignments and Student Work

Grade 4 ELA Passages

- **NYS ELA January 2008**
 - **Comets**

- **NYS ELA January 2010**
 - **The Dragon Hunter**

Writing Samples

Kindergarten, 2nd and 4th Grade



8th Grade Social Studies

"Strange Fruit"

by Lewis Allen

Southern trees bear strange fruit,
Blood on the leaves and blood at the root,
Black bodies swinging in the Southern breeze,
Strange fruit hanging from the poplar trees.

Pastoral scene of the gallant South,
The bulging eyes and twisted mouth,
The scent of magnolias, sweet and fresh,
Then the sudden smell of burning flesh.

Here is a fruit for the crows to pluck,
For the rain to gather, for the wind to suck,
For the sun to rot, for the trees to drop,
Here is a strange and bitter crop.

8th Grade Social Studies

“Strange Fruit” discussion questions:

- Why were most lynching victims hung from trees? Would they have died this way had they been convicted of a crime in a court of law?
- What kinds of fruit do trees usually bear? Ask students to generate the cycle a fruit-bearing tree would go through in the course of a season: the tree blossoms, the fruit begins to grow, ripens, and falls to the ground as perhaps the wind blows. On the ground it might be eaten by crows, etc.
- How do we know from the lyrics that the "strange" fruit here means the bodies of lynching victims?
- Why is it that Southern trees bear the "strange fruit"?
- What contrast is made between the "gallant South" and the South which bears strange fruit? What is ironic about this contrast?
- Why do you think the word "lynching" never appears in the song?
- Do you think the song is more powerful, or less powerful, because its topic [lynching] is implied instead of stated?

8th Grade Social Studies

The Negro Speaks of Rivers

By Langston Hughes

I've known rivers:

I've known rivers ancient as the world and older than the
flow of human blood in human veins.

My soul has grown deep like the rivers.

I bathed in the Euphrates when dawns were young.

I built my hut near the Congo and it lulled me to sleep.

I looked upon the Nile and raised the pyramids above it.

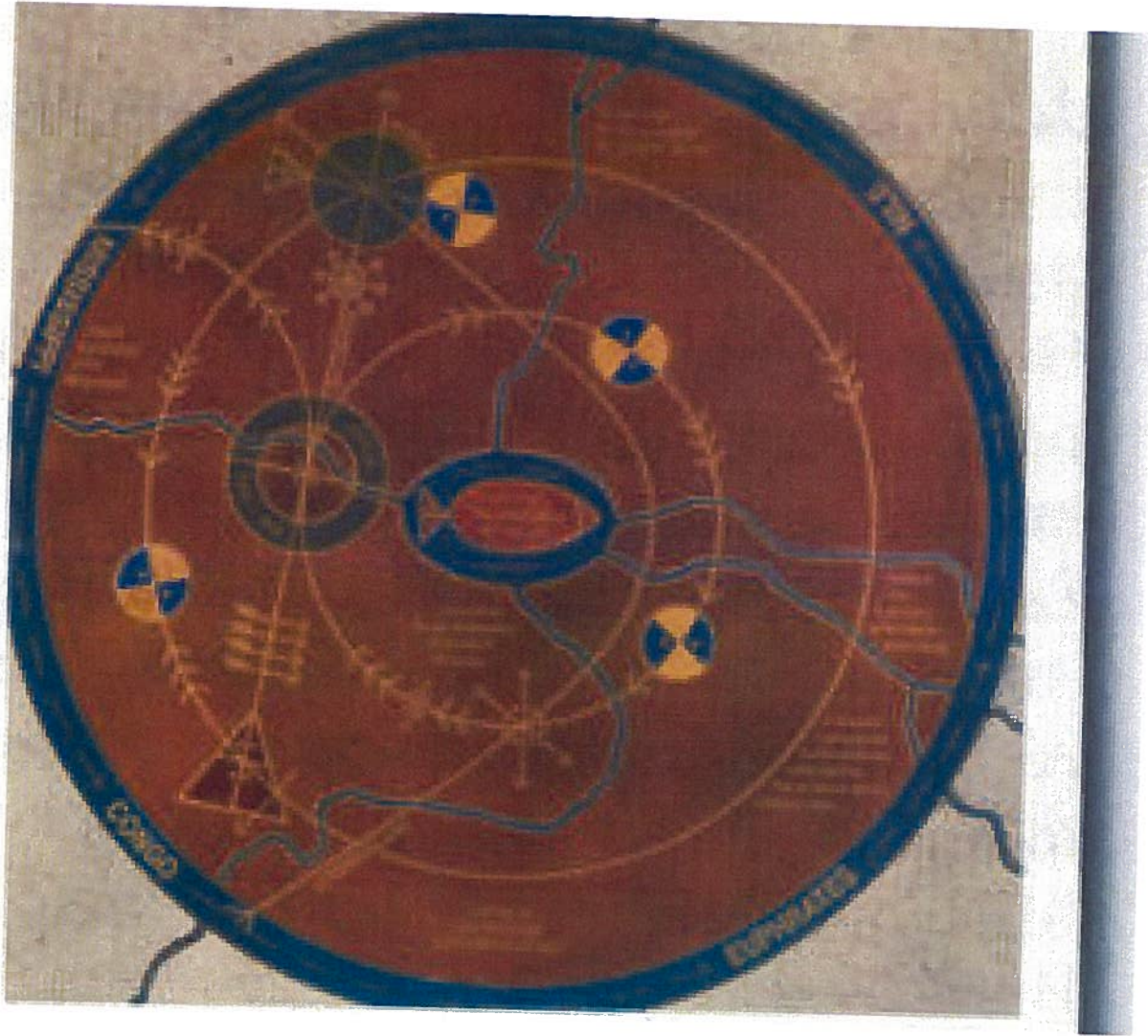
I heard the singing of the Mississippi when Abe Lincoln
went down to New Orleans, and I've seen its muddy
bosom turn all golden in the sunset.

I've known rivers:

Ancient, dusky rivers.

My soul has grown deep like the rivers

8th Grade Social Studies



11th Grade English Language Arts

Black Boy by Richard Wright

Informative/Explanatory Writing

Richard Wright struggles to find his 'place' in society. He refuses to forgo his morality and beliefs to conform to the status quo. Examine Wright's pride. Find examples in the text that demonstrate the influence pride has on Wright's actions. How does his pride influence his decisions? Is pride a positive or negative influence in Wright's life? How does Wright's pride affect how his family members treat him?"

11th Grade English Language Arts

excerpt of a 3 page essay

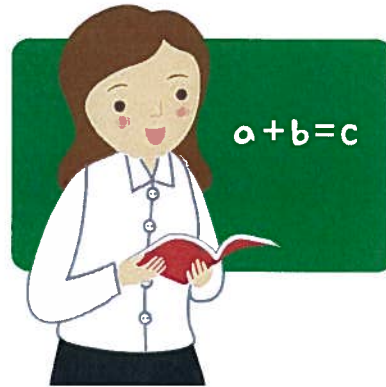
Wright's pride prompts him to make principled decisions and carry out actions that illustrate his morality and inherent beliefs. Wright refuses to neglect his values and chooses right over wrong even when he recognizes that failure to adhere to what is expected of him will ultimately result in negative and often violent consequences. When he receives the title of valedictorian and refuses to read the speech prepared for him by his principal, choosing instead to present his own speech in spite of the threat of being held back, Wright's pride is demonstrated. Although he comprehends the consequences and the gravity of his decision, Wright refuses to compromise his beliefs: "I know that I'm not educated, professor . . . But the people are coming to hear the students, and I won't make a speech that you've written" (174). Though urged by his family members and his classmates to avoid conflict and to comply with the principal's demand, Wright refuses because he does not believe it is the morally correct thing to do....

The Student organizes complex ideas, concepts, and information so that each new element builds on that which precedes it to create a unified whole.

Student uses appropriate and varied transitions and syntax to link the major sections of the text, create cohesion, and clarify the relationships among complex ideas and concepts.

The Student develops the topic thoroughly by selecting the most significant and relevant facts, extended definitions, concrete details, quotations, or other information and examples knowledge of the topic.

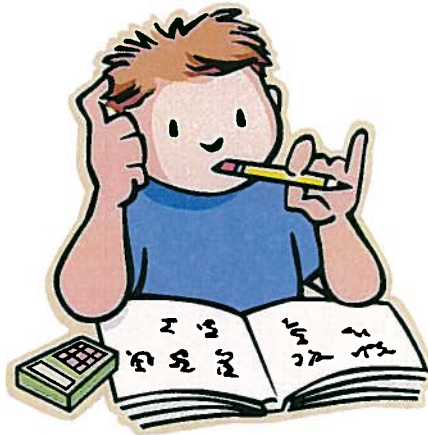
The CCSS for Math: Implementation in Deer Park



Sample Assignments and Student Work

Math Word Problem Samples

2nd and 4th Grade



7th Grade Math

McDonald's Claim



A recent Wikipedia article reports that 8% of all Americans eat at McDonald's every day. Current data indicates approximately 310 million Americans and 12,800 McDonald's restaurants in the United States.

Do you believe the Wikipedia report to be true? Create a mathematical argument to justify your position.

High School Algebra

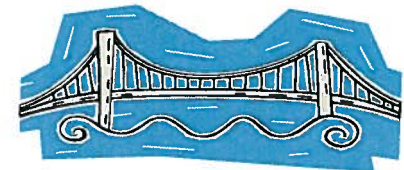
Bridge Problem

Thorough Ted, a construction engineer, correctly computed that the maximum safe load of a bridge being planned would be $1000(99-\sqrt{2})$ tons. Speedy Sam, a construction contractor, then approximated $\sqrt{2}$ as 1.4.

The bridge was built and a sign was posted, based on Speedy Sam's calculations, saying how much weight the bridge could safely hold. On the day it opened to traffic, the bridge collapsed under a load less than a tenth of the posted weight.

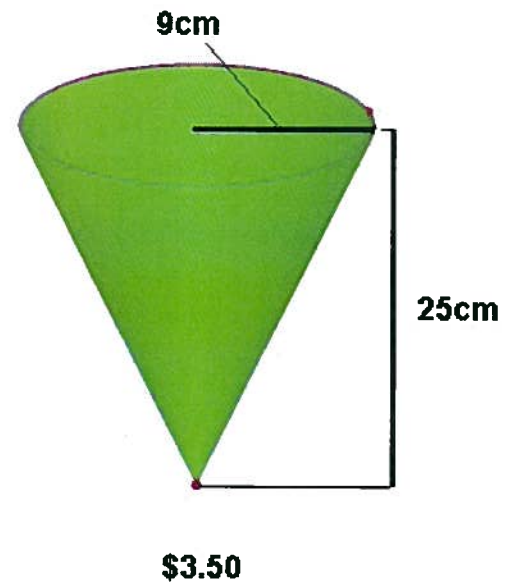
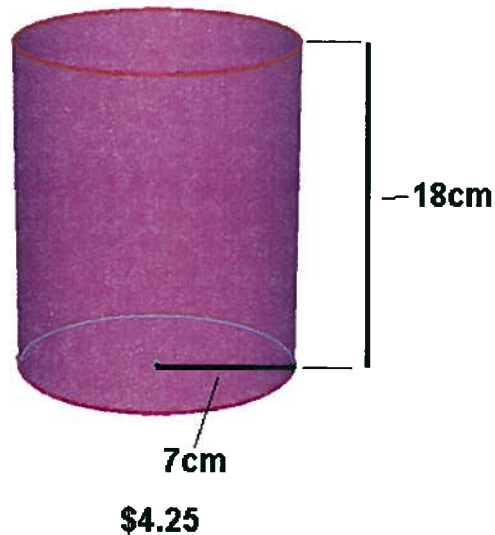
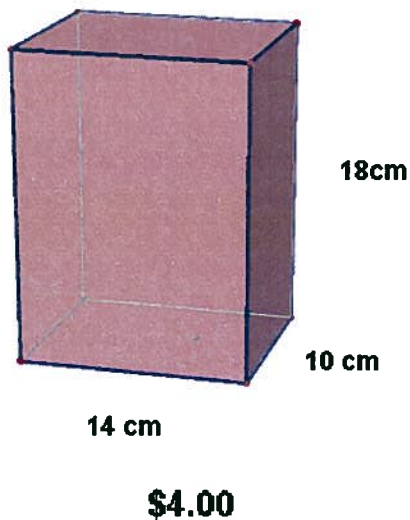
Speedy Sam told the city council that he just used Ted's figures. Thorough Ted has been over and over his figures and doesn't see how they could be wrong.

Write an explanation for the city council of why the bridge collapsed. (You'll have to explain very carefully, since some of them didn't take much math).



High School Geometry

Students noticed that a local movie theater sold popcorn in different shapes of containers, for different prices. They wondered which of the choices was the best buy. Analyze the three popcorn containers below. Which is the best buy? Explain.



DATA-DRIVEN INSTRUCTION:

The Four Keys to Successful Implementation

- 1. ASSESSMENTS**
 - 2. ANALYSIS**
 - 3. ACTION**
 - 4. *in a Data-Driven CULTURE***
-

Data-Driven Instruction in Deer Park

- Common end-of-unit assessments
 - Increased use of data to inform instruction
 - Data dialogue meetings
 - Goal setting
 - Professional development
 - Administrative Council, Curriculum Council, On-Site Workshops, Conferences, Peer Observation, Teacher Studio, Coaching, Collegial Circles, Turn-key Training, Faculty, Department and Professional Development Meetings
-

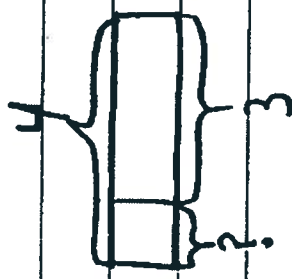
Saima
math

Gr 2

15/11

Michelle has 4 strawberries. Courtney
eats 3. How many strawberries does
Michelle have left?

1 Strawberry are left.

$$\begin{array}{r} 4 \\ - 3 \\ \hline 1 \end{array}$$


Michelle has 1 strawberry
all to herself.

Student

Created

Word - Problem

Daniel

Gr 2

Math

There are 3 groups of balloons.
Each group has 3 balloons. How many
balloons are there?

OOO OOO OOO

$$3 + 3 + 3 = 9$$

$3 \times 3 = 9$ There are 9 balloons.

Student

Created

Word Problem

Gr 2

Kelly has 580 stamps in all

327

Kelly

253

Rose

stamps

in all

Write a real-world addition problem using the words and numbers above.

Kelly has 253 birthday stamps.

Rose comes over to her

house and gives Kelly 327

more birthday stamps. How many

stamps does Kelly have in all?

$$\begin{array}{r} 253 \\ + 327 \\ \hline 580 \end{array}$$

580

Q. 2



Each bicycle has 2 wheels.

Find the number of wheels on 5 bicycles.



$$5 \times 2 = 10$$

$$5 + 5 = 10$$

$$2 \times 5 = 10$$

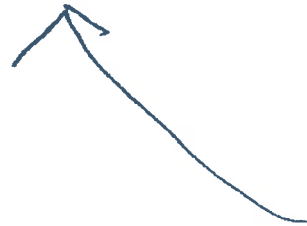
There are 10 wheels on 5 bikes.

4th Grade Math Problem

When you subtract one of the numbers below from 900, the answer is greater than 300. Which number is it?

- 823
- 712
- 667
- **579**

$$\begin{array}{r} 891 \\ - 900 \\ \hline 579 \\ \hline 321 \end{array}$$



I subtracted five-hundred seventy-nine from 900 and borrowed once times and got 321 because it's greater than 300.

4th Grade Math Problem

When you subtract one of the numbers below from 900, the answer is greater than 300.

Which number is it?

- 823
- 712
- 667
- **579**

$$\begin{array}{r} \cancel{8}^9 \cancel{10}^10 \\ \cancel{900} \\ - \cancel{712} \\ \hline \cancel{188} \end{array}$$

$$\begin{array}{r} \cancel{8}^9 \cancel{10}^10 \\ \cancel{900} \\ - \cancel{667} \\ \hline \cancel{233} \end{array}$$

$$\begin{array}{r} \cancel{18}^19 \cancel{10}^10 \\ \cancel{900} \\ - \cancel{300} \\ \hline \cancel{600} \end{array}$$

$$\begin{array}{r} \cancel{8}^9 \cancel{10}^10 \\ \cancel{900} \\ - \cancel{823} \\ \hline \cancel{77} \end{array}$$

$$\begin{array}{r} 8^9 \cancel{10}^10 \\ 900 \\ - 579 \\ \hline 321 \end{array}$$

When I subtracted 579 from 900 the answer was greater than 300.

Gr (K)



How To
Make a
Build-a-Bear

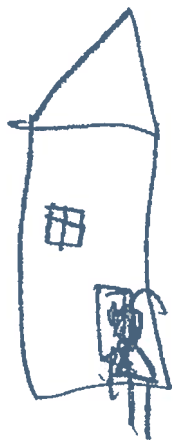


HAW TO MAC A



Build a Bear

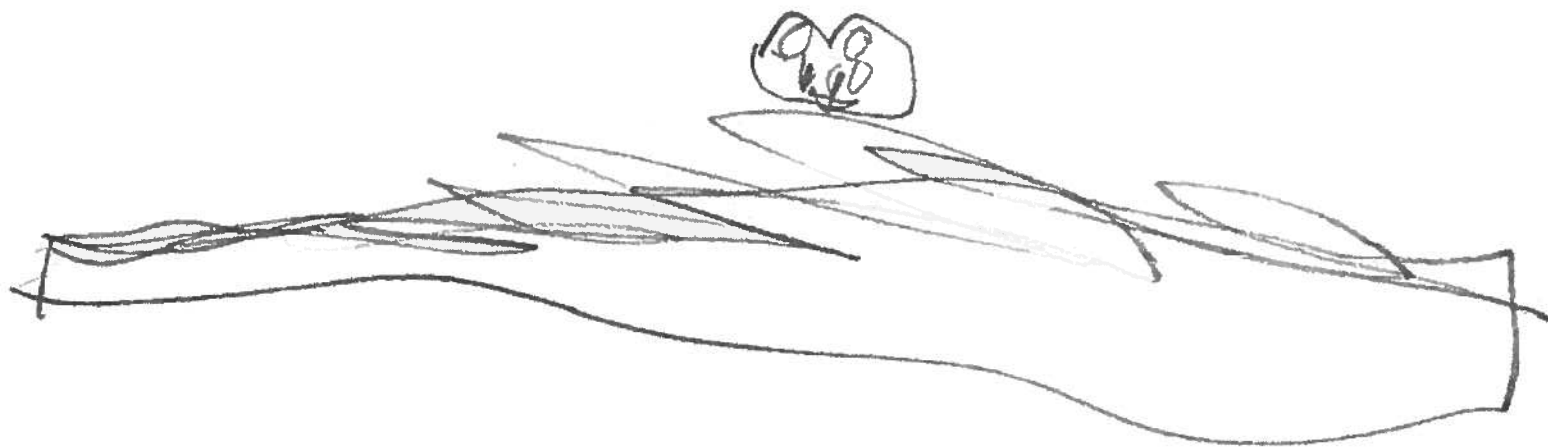
Julia



you go to Billy



BER WERCK SHOP



You Pick a Bet





and you Sadaf the



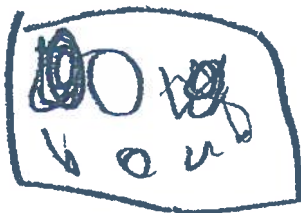
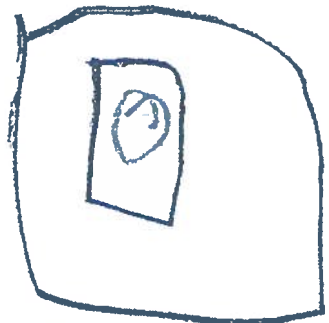
~~and you~~ bet



How the Bar



a B A F



Pen you hand + he



~~Pen you hand + he~~ Ber

Shells

Gr (K)

By M. Chelangelo

NF

this shell is

very small

and has lines.



This shell is
very small
and has lines.

NF

It is won

is a circle

and is very

colorful.



This one
is a circle
and is very
colorful.



This one is
a spiky one
and is green.

this wun is a spice

wun

and is Green.

Shells can
be different
shapes and
sizes.

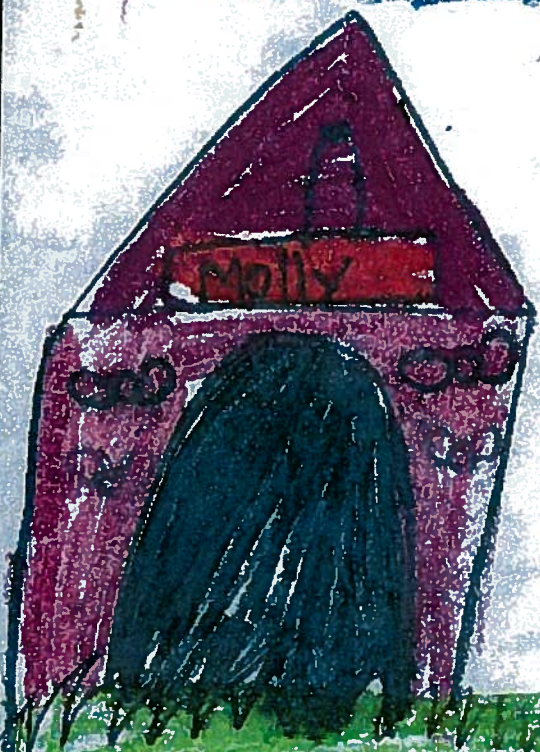
Shells can

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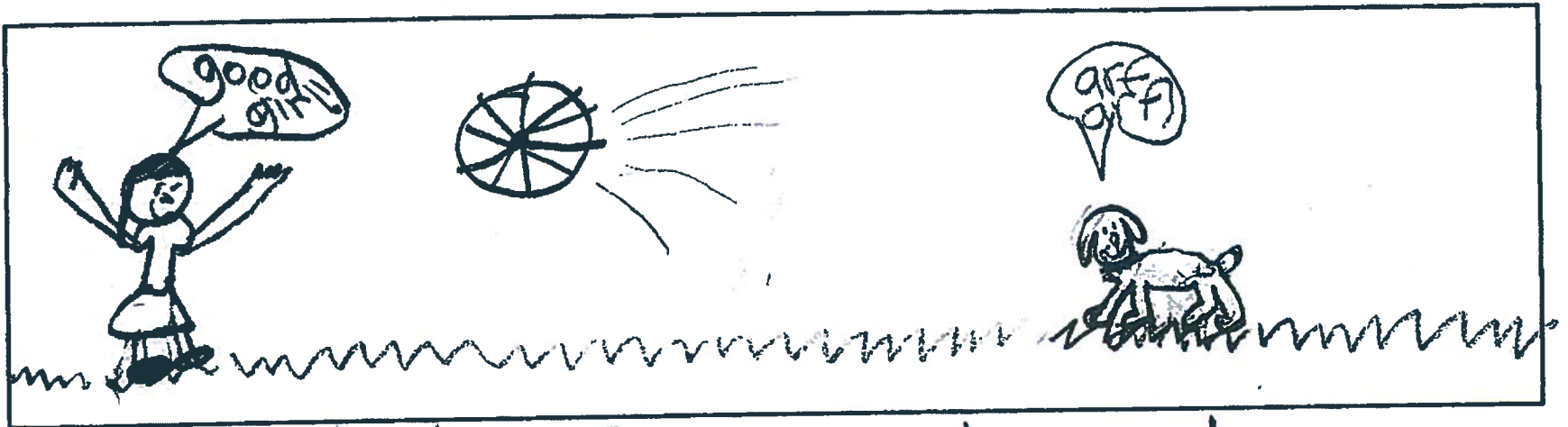
The Best Pet!



Gr (2)



Introduction

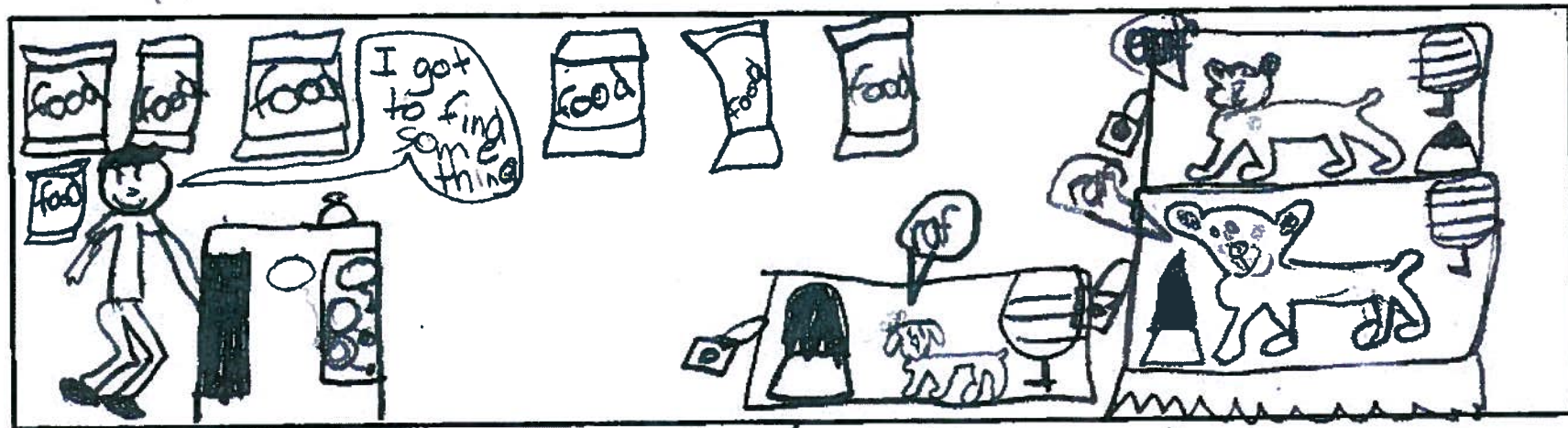


Hey kids do you love dogs a lot? So buckle your seatbelts up kids we are going for a trip today. Have fun learning a lot about dogs kids. Make sure you learn so much about dogs. Have good times learning about dogs.

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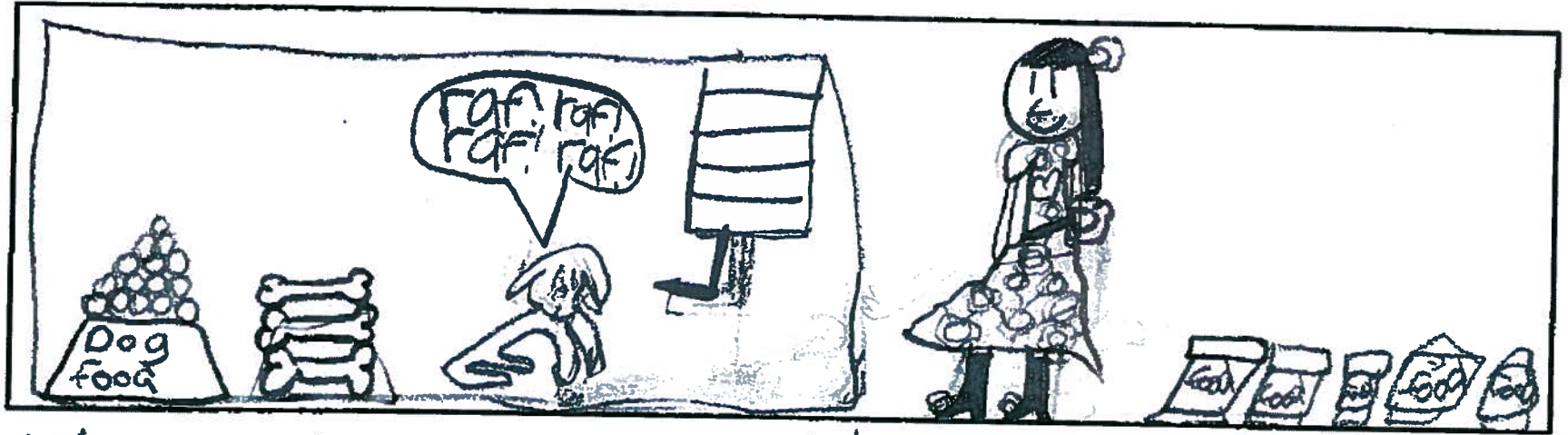
<u>1</u>	<u>Introduction</u>	<u>---</u>
	<u>Table of Contents</u>	<u>---</u>
<u>1.</u>	<u>Where dogs mostly live!</u>	<u>---</u>
<u>2.</u>	<u>Eating time!</u>	<u>---</u>
<u>3.</u>	<u>Play time!</u>	<u>---</u>
<u>4.</u>	<u>Bath time!</u>	<u>---</u>
<u>5.</u>	<u>Help is coming!</u>	<u>---</u>
<u>6.</u>	<u>What you need in Dog Cages!</u>	<u>---</u>
<u>7.</u>	<u>Diagram!</u>	<u>---</u>

Standard Where Dogs Mostly Live!



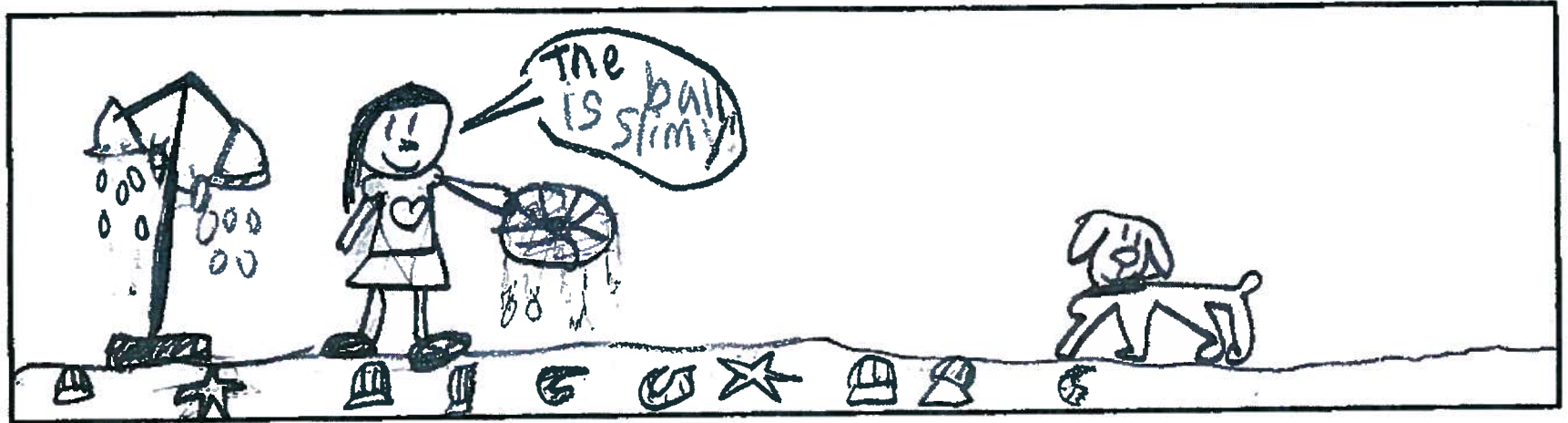
Dogs live in pet shops because these are good homes for the dogs to live in. Next, they get a wonderful owner and they get a house to live in. The dogs love houses a lot. The dogs like houses because they get a fun owner!!!

Eating time



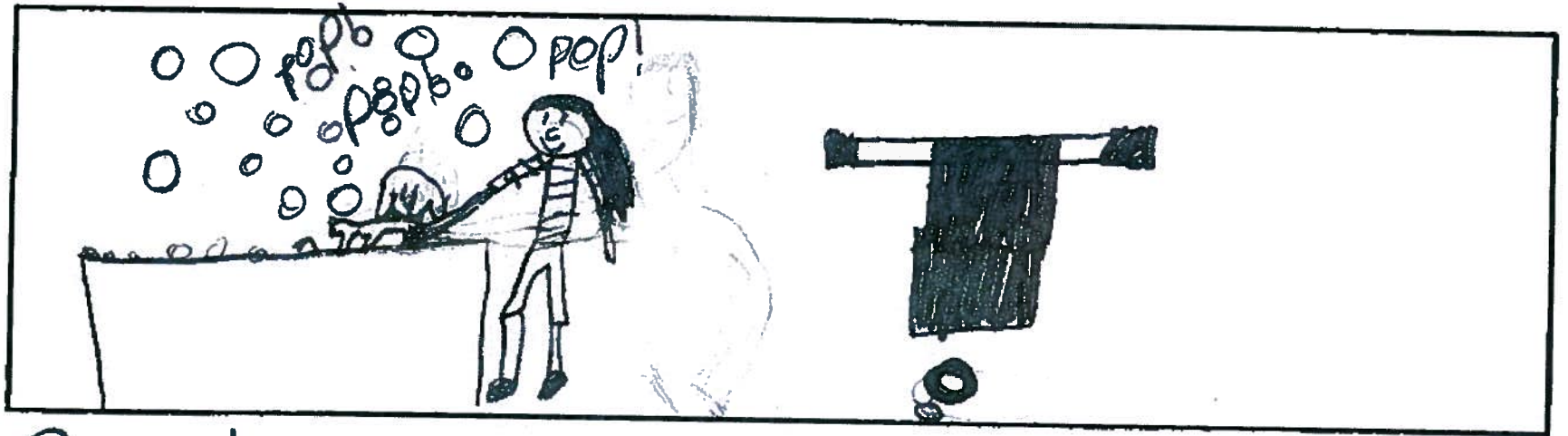
Your dog would like to drink fresh water of course. Dogs like to eat grass and the grass gives your dog energy. Another treat you could give your dog is called a bone. Also just feed your dog 1 or 2 a day. Your dog would like some dog food. Make sure you fill up their bowl so they could munch up their food.

Play time!



Dogs love to play fetch. If you want to play fetch with your dog you only need a stick and you can play. You could run with your dog or race. You can play baseball with your dog. Also ball would be a good game for your dog. Dogs catch the ball with there mouth and the ball gets slimy

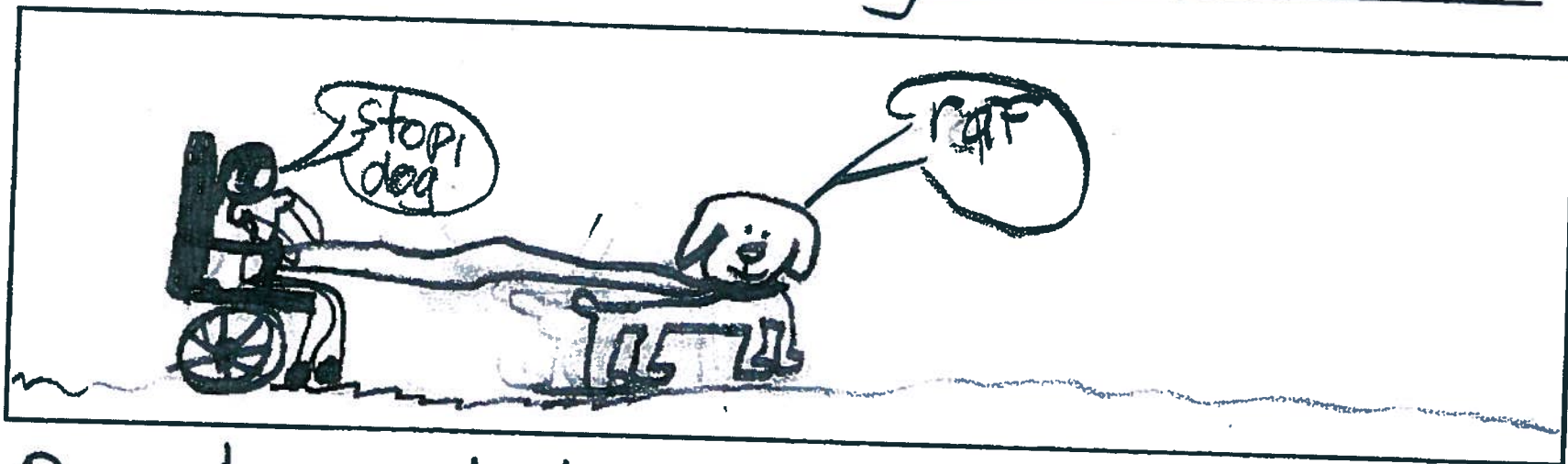
bath time!



Brush your dogs teeth every day so your dogs teeth could be clean. Make sure your dog takes a bath. Their fur gets dirty every day so make a bath for your dog.

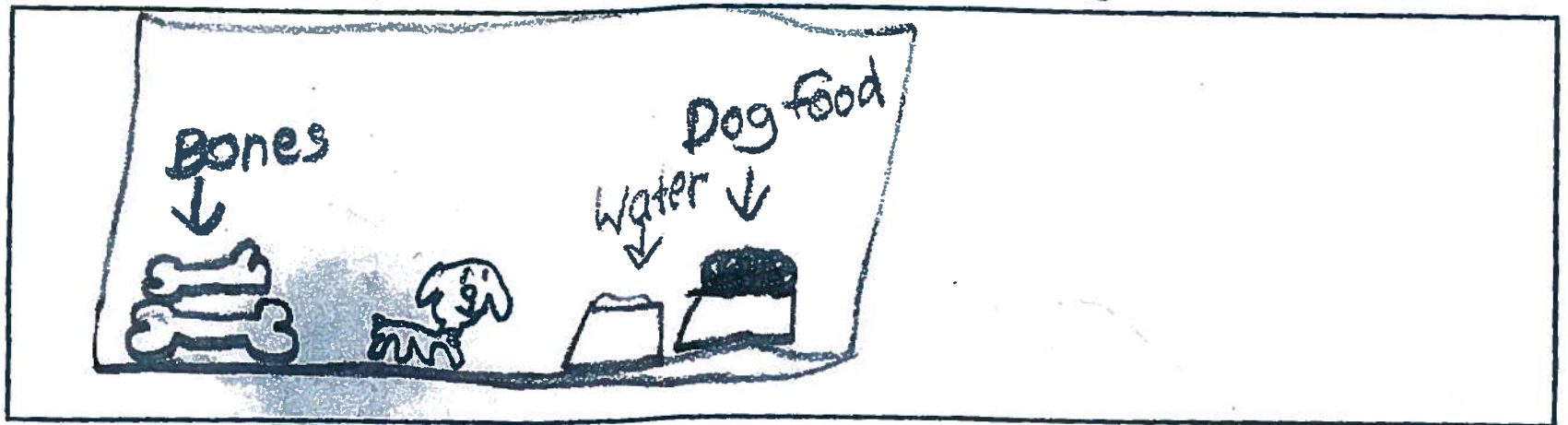
Brush your dogs fur so it's fur is clean. Cut your dogs nails if they're long. Keep your dogs feet clean!

Help is coming



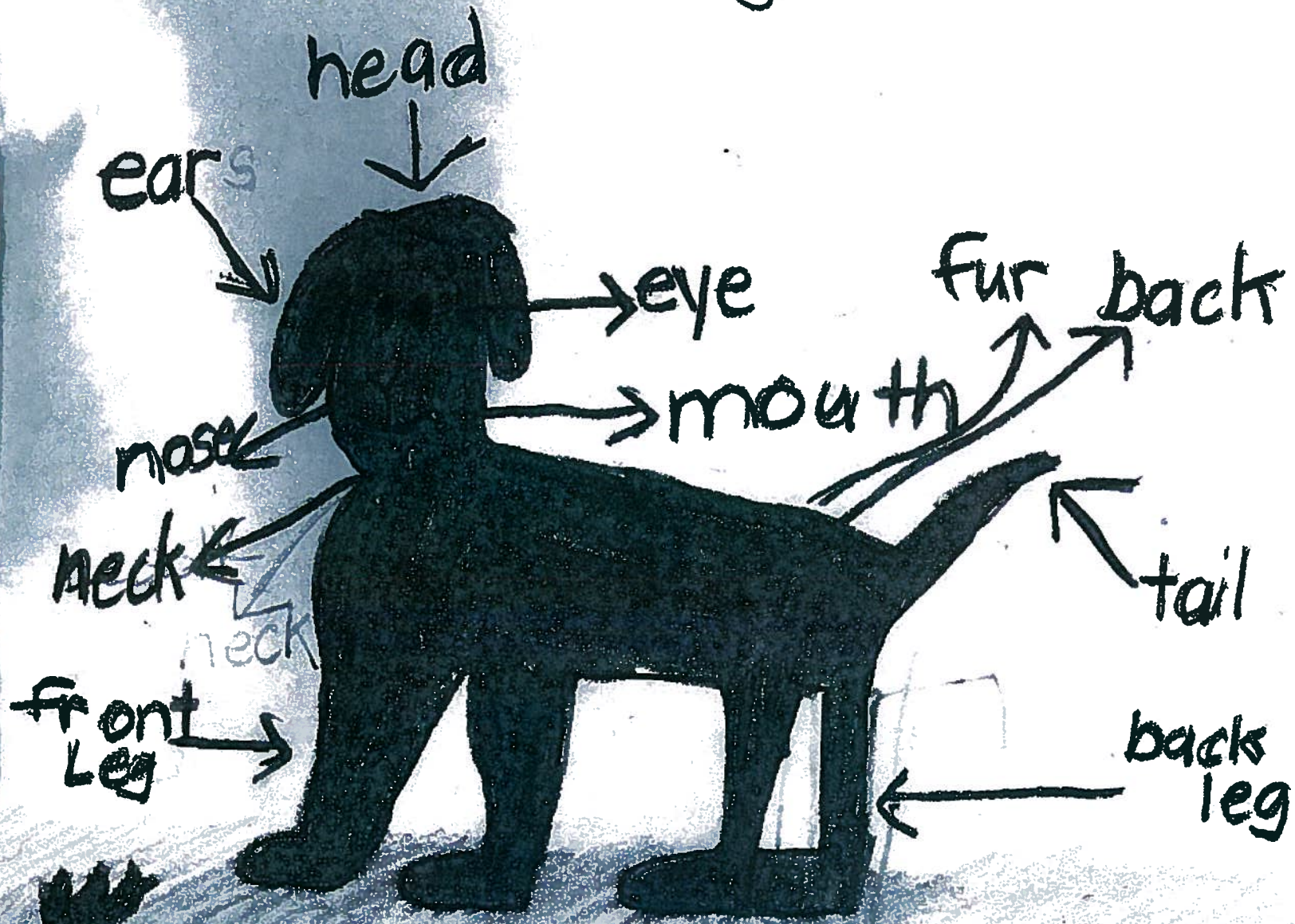
Do dogs help of course they do.
If some ones arm is hurt dogs
could help them out. If some one
is blind dogs help out a lot. That's
why dogs are the best pets ever.
Your dogs could help any time. Dogs
can help any time you want them to.

What you need in Dog cages!

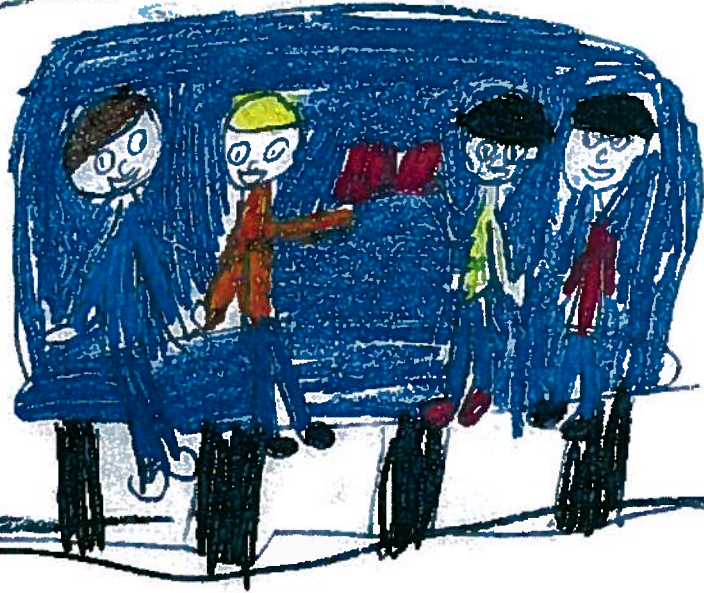


You of course need a bowl of
water in the cage you also need
a big bowl of dog feed in their
cages. You need some treats for
your dogs. The perfect treat and
of course you know it. It is called a
bone. Only give 1 or 2 bones in
their cages.

Diagram of a dog.



Informational
Book About ***
Big Time Rush



Gr 2

By Anna [unclear]

Introduction

Do you know what B.T.R stands for? It stands for a popband. It is... Big Time Rush! If you know Big Time Rush I hope you love them as much as I do! I love them a lot! And if you don't know them, watch them on tv and read this book.

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— Introduction —

— Table of Contents —

1. — Getting to Know the Band —

2. — What the Band Did —

3. — One of Big Time Rushes Favorites —

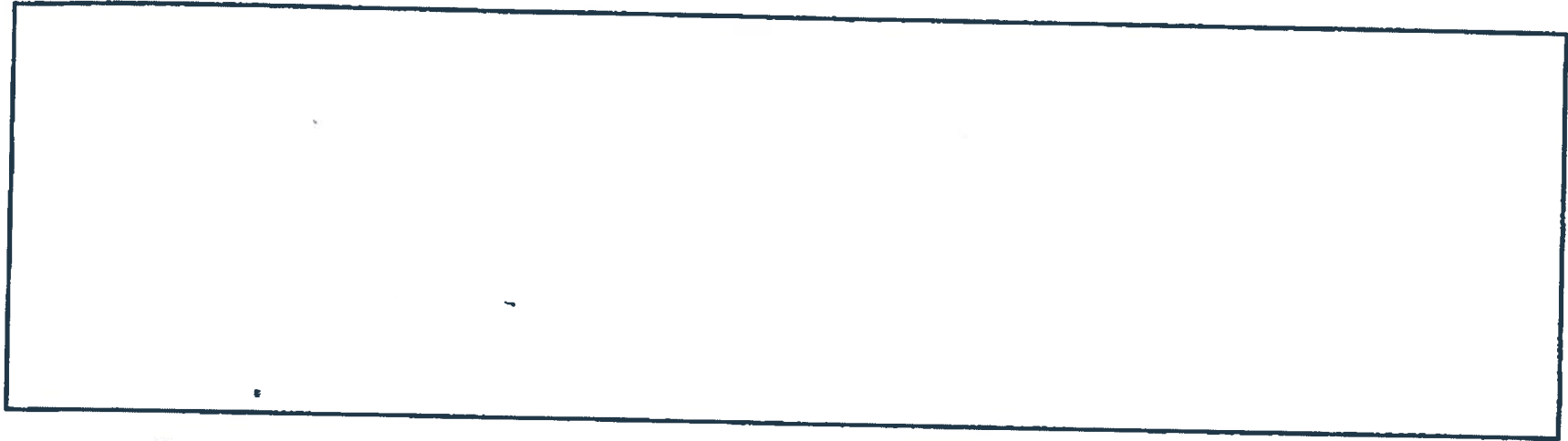
4. — Did You Know —

— Diagram of the Recording studio —

— —

— —

Getting to Know the Band



In Big Time Rush there are four members in the band. There is Kendal Knight, Jamse Diamond, Carlos Garseea and Logan Michal. Before they were famise Kendal loved to play gotar and sing. Before they came to the pomwords they lived in minasoda. Kendals friends needed to live with Mrs. Night which is Kendals mom. Before they were famise they played hockey. You might wonder why Carlos loves his helmet, well because the reason is Carlos fell in love with the lacoball and have the lacoball hockey

What The Band Did

--	--	--	--

If you watch Big Time Rush you
might know what they did for example,
once they had a beach party, and they
sang with the famis Jordan Sparks. They
even had concerts all around the world!
And they even was on the news, singing
Pariliced on top of a truck. And don't forget
their song -

Sea Lions

Gr (4)



By Alexis

The Owner
and Author
of this
Great Book is:

Alexis



Table of Contents

- Ch.1 ~ A Closer Look pgs.1-2
- Ch.2 ~ Living the Life pgs.3-4
- Ch.3 ~ On the Lookout pgs.5-6
- Ch.4 ~ Secrets of a Sea Lion pgs.7-9
- Ch.5 ~ Happy Life pgs.9-10
- Ch.6 ~ Fun Facts pgs.11-12

A Closer Look

Sea Lions are one of the most interesting animals. Don't you think? Therefore Sea Lions are **mammals**. For instance they are warm-blooded. They are usually on land either relaxing or cooling. However, they lay in the sun for hours for a darker shade of brown. Sea Lions are also known to have a **vertebrate**.



These Sea Lions are basking in the sun.



This is a Sea Lion with its curved.

On the Lookout

Don't you wonder sometimes what a Sea Lion may eat? Some of their diets may be seafood (salmon), or small sharks. They sometimes find their food above the sea or below the sea. Sea Lions are also considered to be **carnivores**, which means they like to eat meat.



This Sea Lion is eating a fish



This Sea Lion appears to be eating a small shark

Secrets of a Sea Lion

Sea Lions have layers of fat called **blubber**. This blubber helps protect them from their **adaptation**. Male Sea Lions are called "bulls." Females are called "cows." A Sea Lions group is called a raft. Sea Lions are known to migrate but, not all. For example, the Australian Sea Lion does not migrate. Now you learned something.



This is a group of Sea Lions called a raft



This is a raft of Sea Lions communicating

Dedication:

I dedicate this book to my mom and dad because I love them. They also care for me.

Glossary

mammal - a animal that gives live birth to young.

Vertebrate - an animal that has a backbone.

habitat - a place where an animal or a plant lives.

environment - everything + surrounds and affects a living thing.

adaptation - any structure or behavior that helps a living thing meet its needs for survival.

life span - is how long something lives.