

ELINOR WONDERS WHY

EW142 Butterfly Drinks

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Elinor's Question: How do butterflies drink from flowers?

Logline: Elinor loves her butterfly suit, but how is she supposed to drink when her arms are now wings?

Curriculum Goals: • LS2. Understand that animals have different body parts that are used in different ways to meet their needs, and that plants have different parts that help them survive and grow:

- a. Identify body parts of animals and their function [They learn how butterflies have long straw-like mouths]
- LS3. Understand that all animals need food in order to live and grow, that they get their food from plants or from other animals, and that plants need water and light to live and grow:

- a. Observe ways that animals and plants get what they need to live and grow [Butterflies drink from flowers using their straw-like mouths]

- ND3. (RTL Crosscutting concept 'Structure and Function'):
Understand that structures and materials in the natural world can be used or can inspire the engineering of structures with similar function in the designed world. [Straws are like an butterfly (or elephant) proboscis]

- SEP1. Asking questions (science) and defining problems (engineering)

b. Ask more complex questions about observable phenomena

c. Ask and/or identify cause and effect questions that can be answered by an investigation

d. Identify a problem that can be solved by the design a new or improved object or tool (engineering) (Elinor asks questions about the butterfly, including how it drinks from flowers, and then she develops a drinking straw "proboscis" for her butterfly costume).

FIRST DRAFT: September 16, 2019

SECOND DRAFT: September 27, 2019

POLISH DRAFT: October 15, 2019

1. INT ELINOR'S SCHOOL -- DAY

It's a beautiful day in Animal Town. At school, MZ. MOLE is addressing the class just before letting them out at the end of their school day on a Friday.

1	MZ. MOLE	1
	OK class, that's it for today. Oh, and don't forget, Monday is INSECT DAY! Everyone needs to come dressed as their favorite insect.	

The class reacts enthusiastically with <SFX:
YEAH!/COOL!/AWESOME! WALLA>.

2	CAMILLA	2
	I love insects!	

3	KOA	3
	Yeah, they're so totally chill...	

4	MZ. MOLE	4
	Haha, yes they are. Alright, you little rug bugs, off you go!	

The kids get up and bustle out excitedly.

2. EXT ELINOR'S SCHOOL -- DAY

Students are filing out of the school with <SFX: BYE MZ.
MOLE!/SEE YOU LATER WALLA>, and we follow ELINOR, ARI and
OLIVE as they head home. Olive is holding an INSECT BOOK,
reading as she walks.

5	ELINOR	5
	I can't wait for insect day. What kind of insect are you going to be, Ari?	

6	ARI	6
	I don't know. I haven't picked one. All I know is that it's gotta be super-duper cool.	

	Olive looks up from the book and then flips through some pages.	* *
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7	OLIVE	7
	Wow, there are so many amazing kinds of insects.	*
	Listen to this! Did you know that ants have TWO STOMACHS?	

She points with her trunk at a diagram in her book of an ant and its two stomachs. Elinor and Ari <SFX: WHOA/COOL>.

8 ARI 8
I wish *I* had two stomachs! Then I
could eat lunch TWICE!

Elinor <SFX: GIGGLES>. Olive flips to another page.

9 OLIVE 9
And did you know that caterpillars *
have TWELVE EYES?!

She points again, this time to a drawing of a caterpillar's head. <SFX: WHOA WALLA>

Elinor blinks a few times while Ari makes goggles with his hands around his eyes.

10	ELINOR	10	*
	That's a lot of eyes!		*

Olive flips to another page.

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11                OLIVE                                11
                <GASP!> And look! Did you know that      *
                ladybugs hide their wings under
                their shells by FOLDING them?

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She points to a diagram of a ladybug and its wings.

12	ARI	12	
	That's awesome, Olive. Which insect		*
	are you going to pick for your		
	costume?		

13		OLIVE	13	
	I don't know! They are so many. I'm			*
	gonna have to read this whole book			
	just to learn about all of them!			

Ari turns to Elinor.

14 ARI 14
I think Olive is bugging out. Get
it? BUGGING OUT.

15 ELINOR 15
 <GIGGLES> I got it, Ari.

They all <SFX: LAUGH>.

16 ELINOR (CONT'D) 16
Well, I know what *my* insect costume
is going to be.

17 OLIVE 17
Oooh tell us, Elinor! *

18 ELINOR 18
I'm going to be... a butterfly!

Elinor does a little loop around, spreading her arms and
flitting like a butterfly.

19 ELINOR (CONT'D) 19
I just think they are SO
interesting. I love their big wings
and all their colors and spots.

As Elinor flits about, Ari has a thought.

20 ARI 20
I always wondered about
butterflies.

21 OLIVE 21
Wondered what, Ari?

22 ARI 22
Why is it called a "butter fly".
Does it fly... like butter?

THOUGHT BUBBLE of a stick of butter with wings.

The kids <SFX: GIGGLE>. At that moment, Ari notices something
in Olive's book.

23 ELINOR 23
Oh, what's THAT one called?

On the book, we see a drawing of a dragonfly.

24 OLIVE 24
That one's called... a dragonfly.

25 ARI 25
A DRAGON-fly? Like a DRAGON? That
flies?! That is SO cool! *

Ari gets excited and starts running and stomping around,
flapping his arms. *

26	ARI (CONT'D)	26	
	I'm going to be a DRAGONfly! And breathe fire and look for treasure!		
	RAAAARR!		
27	OLIVE	27	
	I LOVE it - RAAARR!		
28	ARI	28	
	RAAARR! Are you going to be a Dragonfly too, Olive?		*
29	OLIVE	29	
	No, I just like going RAAARR!		
	Olive <SFX: LAUGHS> and joins Elinor and Ari, holding her book up as they all flit and run around to <SFX: LAUGHTER>.		*

3. EXT ELINOR'S HOUSE -- DAY

Later that day (or later that weekend), we open on an establishing shot of Elinor's house.

4. INT ELINOR'S KITCHEN -- DAY

Elinor comes into her kitchen carrying an armload of craft supplies. Her dad is finishing up something.

30	MR. RABBIT	30	
	Hi Elinor, what are you doing?		
31	ELINOR	31	
	I can't talk right now, Dad, I'm super busy!		*
			*
	Elinor sets her things down on the table.		
32	ELINOR (CONT'D)	32	
	I'm making a butterfly costume for insect day!		
33	MR. RABBIT	33	
	Oh. Can I help?		
34	ELINOR	34	
	Mmm, ok! You can be my assistant if you want.		
35	MR. RABBIT	35	
	(chuckling)		
	You're the boss.		

Mr. Rabbit sits down next to Elinor as she lays out her supplies.

36 ELINOR 36
Mz. Mole said it has to be
something special, so I want my
costume to be *just* like a real
butterfly.

37 MR. RABBIT 37
How very scientific of you. Where
do we start?

Elinor grabs a crayon and a notepad.

38 ELINOR 38
We're gonna draw the costume, and
then we're going to make it.

39 MR. RABBIT 39
(smiling)
Excellent plan! Do you need any *
help? *

40 ELINOR 40
That's ok, dad. I know what a butterfly looks like.

Elinor sits at the table and draws a sketch while Mr. Rabbit looks on. She draws as she narrates.

41	ELINOR (CONT'D)	41
	Butterflies have a body, and a head	*
	with two... and four butterfly	*
	wings...	

She turns to her dad.

42 ELINOR (CONT'D) 42
Some kids think a butterfly has two
big wings, but actually, it has
four.

She draws four lobes for the butterfly wings. Then she starts to draw the legs, but stops.

43 ELINOR (CONT'D) 43
And it has one, two... Um... How
many legs do butterflies have? Is
it two? Or four...?

44 MR. RABBIT 44
That's a good question, Elinor.

Mr. Rabbit looks out the window and spots some butterflies fluttering outside.

45 MR. RABBIT (CONT'D) 45
I see some butterflies outside. You
know, sometimes the best way to
know something is to see or hear it
for yourself.

Elinor looks out the window and sees the butterflies.

46 ELINOR 46
<GASP> Let's go outside and look at
the butterflies! Great idea, dad.

47 MR. RABBIT 47
Well, I'm glad I could be helpful.

48 ELINOR 48
<GIGGLES> C'mon! We need more
observations!

They grab a magnifying glass from the counter and head out into the backyard, notepad in hand. *

5. EXT ELINOR'S HOUSE -- DAY

49 ELINOR 49
Look, there's a butterfly!

They spot a butterfly flying and then landing on something (not a flower).

50 ELINOR (CONT'D) 50
Let's take a closer look.

They comically tip toe over to the butterfly.

51 ELINOR (CONT'D) 51
It's so amazing! I love
butterflies.

Elinor's Dad holds the magnifying glass, and they look closely at the legs. *

52 ELINOR (CONT'D) 52
It has one, two, three, four,
five... six legs! Butterflies have
six legs.

She draws six legs in her butterfly sketch.

53 ELINOR (CONT'D) 53
Wow! I thought I knew everything
about butterflies, but they're even
more interesting than I thought.

54 MR. RABBIT 54
Good thing we checked.

55 ELINOR 55
You're a good assistant, dad.

They both <SFX: GIGGLE>. The butterfly takes off.

56 ELINOR (CONT'D) 56
Wow, there are so many butterflies
today. I wonder what they're doing?

57 MR. RABBIT 57
Well, the flowers are in bloom, so
I think they're out drinking.

58 ELINOR 58
Butterflies get thirsty?

59 MR. RABBIT 59 *
And hungry! They drink their food
from flowers.

60 ELINOR 60
Oh, like bees?

61 MR. RABBIT 61
That's right. They drink the
nectar, that's the watery juice
that flowers have inside.

62 ELINOR 62
Ohhh...

Using the magnifying glass, they look closely at the flower. *

63 MR. RABBIT 63
See, this flower has its nectar all
the way inside.

On a CU, we catch a glimpse of some nectar droplets near the
bottom of the flower, where the petals meet.

64 ELINOR 64
Wow. Butterflies are the best!
Let's go back and make the costume.

6. INT KITCHEN -- DAY

Back inside, they get to work. We have a little montage of them working on the costume: cutting out the wings, decorating them, making the shirt, attaching the legs, etc.

A cross-fade later, Mr. Rabbit stands in the kitchen, facing towards the living room.

65 MR. RABBIT 65
Ok, let's see it.

66 ELINOR 66
Ta da! We did it!

Elinor hops into view. She's wearing an adorable kid-made butterfly costume. The wings are made out of painted cardboard, and Elinor has her hands attached to the upper wings via some wrist straps. Two small strings connects the upper and lower wings. She runs around the kitchen flapping her wings <SFX: GIGGLES/WALLA>.

67 MR. RABBIT 67
It looks great.

At that moment, RANGER RABBIT walks into the kitchen.

68 RANGER RABBIT 68
Oh my, there's a butterfly in our
kitchen!

69 ELINOR 69
(giggling)
It's me, mom! I made a butterfly
costume for school.

70	MR. RABBIT	70
	Ahem.	

71 ELINOR 71
I had some help.

72 RANGER RABBIT 72
Well, I think it's lovely.

73 ELINOR 73
I wanted it to look *just* like a
real butterfly, so we went outside
to observe some.

Elinor shows off the features of her costume.

74 ELINOR (CONT'D) 74
 See, it has six legs... And look, I
 can move my wings! Did you know
 that butterflies have FOUR wings,
 not two?

Elinor moves her arms and flaps her wings.

75 RANGER RABBIT 75
 Indeed they do. I think it helps
 them fly.

76 ELINOR 76
 That's me. I can flyyyyyy..!

Over collective <SFX: GIGGLES AND LAUGHTER>, Elinor runs
 around the kitchen flapping her wings.

77 RANGER RABBIT 77
 Careful you don't fly away!

Mr. Rabbit goes over to the fridge and pours a couple of
 glasses of lemonade for all of them.

78 MR. RABBIT 78
 Well, all this assistant work has
 made me thirsty. I imagine you must
 be thirsty too, Elinor.

He hands one glass to Ranger Rabbit and puts down a glass for
 Elinor on the table, then goes to grab his. The parents take
 a glass and sip appreciatively <SFX: SIPPING/SLURP>.

79 ELINOR 79
 Yes. Just like a real butterfly,
 I'm thirsty too.

Elinor hops on top of one of the chairs and reaches for the
 glass, but her arms are stuck in the straps. (The wings don't
 bend forward enough for her to grab the glass, much less
 bring it up to her mouth). She tries several times <SFX:
 SMALL GRUNTS>.

She seems momentarily confounded, smiles awkwardly at her
 parents, then tries another approach. She bends down and
 tries to sip directly from the glass. She aspirates over the
 glass, but unfortunately the lemonade is too far down. <SFX:
 HMMM>. Unfazed, she shifts positions and comically leans over
 and tries to lap the lemonade up with her tongue, tipping the
 glass over with her mouth.

80 RANGER RABBIT 80
 Whoa, careful there, Elinor.

Ranger Rabbit grabs the glass before it tips over.

81 MR. RABBIT 81
 You know, you can always take your
 arms out of the wings.

82 ELINOR 82
 Yeah... I know.

She takes her arms out and holds the glass up.

83 ELINOR (CONT'D) 83
 ... but I wanted to drink just like
 a *real* butterfly does.

A BEAT, as Elinor studies the glass and curiosity builds up
inside of her.

84 ELINOR (CONT'D) 84
 Hmmm, I wonder... How do the real
 butterflies drink from the flowers?

She sets the glass down again and looks at the lemonade from
the side.

85 ELINOR (CONT'D) 85
 I know that butterflies don't have
 hands. And I saw that the nectar
 was all the way inside the flower.

We see a thought bubble with a butterfly standing over a cut
away view of a flower showing droplets of nectar inside
[<https://bit.ly/30Enqit>].

86 ELINOR (CONT'D) 86
 How do they get to the nectar to *
 drink it? *

87 RANGER RABBIT 87
 Good question, Elinor. What do you
 think?

88 ELINOR 88
 Maybe they tip the flower like a
 cup using their feet?

We see a thought bubble of a butterfly on its back holding a
flower with its feet, looking silly.

89 ELINOR (CONT'D) 89
 Or maybe they squeeze the nectar
 out with their wings?

We see a thought bubble of a butterfly trying to squeeze a flower (to no avail).

90 ELINOR (CONT'D) 90
Hmmm, that is SO INTERESTING.

91 MR. RABBIT 91
Remember the last time we had a *
question about butterflies, Elinor? *
What did we do? *

92 ELINOR 92
We went outside to look at them.
Great idea, Dad! We need MORE
OBSERVATIONS!

Elinor puts her hands through the wing straps and flits around once before heading out. She stops at the door.

93 ELINOR (CONT'D) 93
Um, can someone open the door for
me?

Mr. Rabbit opens the door for her.

94 ELINOR (CONT'D) 94
Thanks, Dad! Let's goooo..!

Mr. Rabbit follows her out, magnifying glass in hand. *

95 MR. RABBIT 95
Right behind you, boss.

7. EXT YARD -- DAY

Elinor (still wearing the costume, but now with her arms free) and her father come out back. There are butterflies flitting around the yard.

96 ELINOR 96
There's one! Let's go watch it
drink from a flower.

They follow it around as it flits about. After a moment, the butterfly lands and Elinor and her dad stealthily and comically duck behind the bush.

97 ELINOR (CONT'D) 97
(comically loud whisper) I think
it's going to have a drink!

98 MR. RABBIT 98
Think thirsty thoughts.

Using the magnifying glass, they watch as the butterfly
UNROLLS something from its head and pokes that into the
flower. [ref: https://www.youtube.com/watch?v=03S73-3Tw_0]

*

99 ELINOR 99
Wow! Did you see that? It unrolled
something from its mouth.

On a Science ECU moment, we see the butterfly drinking as it
slurps up the nectar.

100 ELINOR (CONT'D) 100
Look, it's using it to drink! It's
like a straw. That's how the
butterfly drinks from the flower.

101 MR. RABBIT 101
Yes, that straw is called a
proboscis. It's a part of their
mouth.

102 ELINOR 102
Wow, that is so clever. Butterflies
are even *more* interesting than I
thought! *

We hear the first beats of a ditty as the butterfly takes
off, followed by Elinor. As she follows the butterfly around,
she sings.

103 ELINOR (CONT'D) 103
Butterflies can't
Hold a cup
And they have no lips
To drink nectar up

But butterflies have
A special mouth
Long and thin
To suck nectar out

Butterfly! Butterfly!
How do you drink from flowers?
Butterfly! Butterfly!
Sucking up juice
Is your special power

As the song fades, Elinor has an idea.

104 ELINOR (CONT'D) 104
Dad, I think I know how to make my
butterfly costume even better!
C'mon!

8. INT CLASSROOM DAY

It's Insect Day! The kids in class are milling about wearing their insect costumes. Elinor comes in wearing her butterfly costume as before, and spots Olive, who is holding the insect book and wearing what looks like a worm costume.

105	ELINOR	105
	Nice costume, Olive!	

106	OLIVE	106
	Thanks, Elinor! I read this whole book about insects, and at the end I knew exactly what I wanted to be. A bookworm!	

*

She shows off her long body behind her.

107	OLIVE (CONT'D)	107
	Actually, bookworms aren't really worms, they're baby beetles! But they like books almost as much as I do.	

Elinor <SFX: GIGGLES>. At that moment, Ari joins them, holding three small cups.

108	ARI	108
	Elinor! Nice butterfly costume.	

*

109	OLIVE	109
	Yeah, you look <i>just</i> like a real butterfly!	

*
*
*

110	ELINOR	110
	Thanks! I like your costume too, Ari.	

*
*

111	ARI	111
	Thanks, it's a dragonfly, which I learned is not <i>actually</i> a dragon, but it's still super- <i>duper</i> cool. It's one of the best fliers in nature.	

Ari sets the cups down on one of the kid tables and flutters up, zigging and zagging like a dragonfly. Elinor and Olive <SFX: WHOA/GIGGLE>.

112	OLIVE	112
	What's in the cups, Ari?	

