Transcript of Video Vignette 4: Exploring Sinking and Floating

Scene: A teacher and a small group of children are investigating sinking and floating. In the first scene, the teacher introduces the investigation to the whole group. In scene 2, they carry out the investigation and talk about what they found.

Scene 1

Teacher: I would just like to talk a little about this. Does

anybody remember doing this?

Children: Me! Me!

Teacher: Becky, can you tell me a little bit about what happened when you used the different materials? What you did

with the tube?

Becky: I put it down and the water went up and down, and

the toy stuff was coming down.

Teacher: So, some things came down or did everything

come down?

Becky: Not everything.

Child: Only one thing.

Teacher: The bear stayed up?

Becky: Yeah, the bear stayed up and the other stuff went

down.

Teacher: How did it go down? Did it go right down or did

some of them go down?

Child: It wasn't that heavy.

Becky: Because it wasn't that heavy and it went down to the

bottom.

Teacher: So, if it wasn't that heavy, how did it go down if it

wasn't that heavy? How did it go down the tube?

Becky: It went slowly down.

Teacher: And if it was heavy what happened?

Becky: It wouldn't go down.

Teacher: If it was heavy it didn't go down?

Becky: (Shakes head no.)

Teacher: Like if you put a marble in there, what would the

marble do? Do you remember what the marble did?

Becky: Just go down.

Teacher: It just went down.

Becky: Went quickly down and then the tube went sideways

and the toys went down.

Teacher: Oh, so you did it sideways too? You held your tube

sideways?

Becky: It went in the middle. It stayed in the middle.

Teacher: What stayed in the middle? What stayed in the

middle?

Becky: All of them.

Teacher: All of them stayed in the middle when you held it sideways? I have a challenge for you. We have some materials and some tubes and I would like to see if you could make one tube with the materials that you think are going to float and one tube to put the materials in that you think

are going to sink.

Scene 2

Becky: I think this is going to go down.

Teacher: The marble. You think the marble's going to go

down?

Becky: Yeah.

Teacher: Can you tell me why you think it's going to go

down?

Becky: This is going to float.

Teacher: Going to float. Can you tell me why the marble is

going to go all the way down?

Becky: Cause it's hard.

Teacher: It's hard. Hmm. You got any ideas, Danielle?

Becky: This going to stay on top.

Nick: Maybe the hard ones go on top and the little ones go

down to the bottom.

Teacher: Maybe the hard ones . . .

Nick: Go up to the top and the little ones go down to the

oottom.

Teacher: You think? Hey, Nick. Would you like to fill your

tube?

Nick: Sure.

Teacher: What do you think that one's going to do?

Danielle: Float down.

Teacher: You think it's going to float down. Fast or slow?

Danielle: Fast.

Teacher: Can you ask your friends what they think?

Danielle: (No response.)

Teacher: Want to ask your friends what they think?

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TRANSCRIPT OF VIDEO VIGNETTE 4: EXPLORING SINKING AND FLOATING (CONT'D)

Danielle: (Shakes head no.)

Teacher: Becky, Lindy, and Nick. Nick. Danielle thinks that's going to go down the tube fast. What do you think?

Michael: I think it's going to sink.

Teacher: That did go fast. Do you have any ideas why that went fast? I wonder why that went fast. See if you hold them like this . . . like this . . . good.

Nick: Have you noticed how that part of the water goes up?

Teacher: Yeah. Wow. What is that? What's doing that?

Becky: I think it's going to go down fast.

Danielle: Yeah.

Teacher: Let's see if we can guess . . .

Child: Look at, Miss Linda—they roll back and forth.

Teacher: You've got a lot of marbles in there.

Child: I've got four in there. A black one, a blue one, a red

one, and a green.

Teacher: My question would be what makes something

float? Think about that just for a . . .

Nick: Pressure.

Teacher: Pressure. That's a good answer. Pressure. Can you tell me a little about that? Is there a reason why you told me

pressure?

Nick: I don't know.

Teacher: Pressure—was that pressure inside the tube?

Nick: Pressure inside.

Teacher: Pressure from the water or pressure from the

object?

Nick: Pressure from the object.

Teacher: Oh, very good observation. Becky . . .

Becky: It float on the top.

Teacher: Do you know why? Do you have ideas why?

Becky: The water was making it go up and the pumpkin

stayed up on top, because it was light.

Teacher: It was light. That's a good idea. So the pumpkin stayed up on top so the water . . . it was the water that it

was floating on?

Becky: And the marbles went down.

Teacher: Do you have any ideas as to why the marbles went

down the way they did?

Becky: Because some was going up and some went down

because there (inaudible) up and down.

Teacher: Oh.

Becky: And that went down . . . I shaked it up. It went down.

Teacher: When you shaked it up that went down . . . like

when . . . shake it up as in turned it?

Becky: It went down.

Teacher: That's interesting.

Becky: It went down.

Teacher: Thank you, Becky.

Teacher: You think it is going to go down fast? What was

that?

Becky: A marble.

Teacher: A marble. Try something that you think might go down slow or float. You can put it right in there—we're just going to keep it in there, then we can compare them.

Becky: That floats, Miss Linda!

Teacher: It does float. What is that? What did you put in

there?

Becky: It's a stick and that floats too.

Teacher: Why don't you put the cover on, Becky, and then

switch it back and forth and see what it does?

Lindy: This floats. This floats.

Teacher: That does. Yes, it does.

Lindy: Look at the dolphin one.

Teacher: See what happens?

Danielle: It's not going. It's not going.

Teacher: It's not going. How come?

Danielle: Don't know.

Teacher: Good job, Lindy.

Teacher: 'Cause that's a floater. Do you want to try some-

thing else?

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