

Transcription of Science Time video – Big and Little

The video for this transcript can be found on the Questacon website at:

<http://canberra.questacon.edu.au/sciencetime/>

Transcription from video:

- BJ Hi, welcome to Science Time at Questacon. My names BJ
- Dion And my names Dion.
- BJ And today Dion and I are talking about big things and little things. Come and join us. Today we're talking about big things –
- Child And small things.
- BJ And small things.
- Child Look, this is small.
- BJ That is very, very small. Who can tell me something that is big? What's something that is big, can you tell me?
- Child Mountains are big.
- BJ Mountains are big, yes they are. Well done. What else is something that's big. Can you tell me something that's big?
- Child Ants are small, and that's right.
- BJ Oh, we'll talk about small things in a moment, well done. What about elephants? Are elephants big? Yeah, elephants are really big. And what about a house? A house is pretty big, isn't it?
- Child It's like this big.
- BJ It's like this big. Yeah. So there's lots of big things. What is something that's little? Who can tell me something that is very, very little? Can you think at home boys and girls. What's something that's –
- Child Ants!
- BJ An ant. Ants are very, very little, they are. What else is little? Can you think of something that's very, very little?
- Dion What about some other animals. Can anyone think of some animals that are small?
- Child A kangaroo is big and a little kangaroo is in his pouch.
- BJ The kangaroo is big but has a little kangaroo in his pouch. In her pouch. In her pouch. A little joey. So, some animals are big and some animals are little. Do you have any big brothers and sisters in your family?

- Child Me!
- BJ You do? Do you at home? Do you have any big brothers and sisters? Talking about being big and small. I want us all to go as small as we can. Can you come down and be really, really small? Really small. Down we get. As little as little as you can be. Oh, look how little you are. And we are all going to grow. Are you ready to grow? We're going to grow bigger, and bigger. Up we get. And bigger and bigger and bigger and bigger. And be as big as you can be! The biggest. Oh, you are very big. Well done. Let's come and sit down again. Come and sit down again, I have another thing to show you. What is this?
- Children A balloon. A balloon.
- BJ It's a balloon. This balloon is pretty small, isn't it? I want to make it bigger. How can I make my balloon bigger?
- Child Big!
- BJ Yeah, I'm going to make it really big. How do I do that? What do I have to do?
- Child Blow it up!
- Child With some air.
- BJ Blow it up with some air. OK., here we go. Are you ready? I want you to watch it get bigger and bigger. Ready? (*blows air into balloon*). Wow, that's got a bit bigger, hasn't it? Do you think we can make it even bigger?
- Child I think it will pop!
- BJ Oh, I'm going to try really hard not to make it pop. We'll just make it a little bit bigger. Ready? (*blows air into balloon*). Wow, that's got bigger. Is it as big as my head yet?
- Dion It is.
- BJ It is. I think we can make it even bigger. Ready? (*blows air into balloon*). Wow, it's getting bigger.
- Child Now, blow it again.
- BJ We'll blow it again. Ready? (*blows air into balloon*). Wow, I think that's about the biggest we want to go. That's pretty big now, isn't it. What will happen when I let go of the balloon?
- Child It'll go phhhhhh!
- BJ It's go phhhhh! That's exactly what will happen. What's going to happen to the size of the balloon?
- Child Go smaller.

- BJ It'll go smaller, won't it? Are we ready? Are we ready? O.K. Are you ready? I think we're all going to have to say ready, set, go. And then I'm going to let go. Can we all say ready, set, go?
- Everyone Ready, set, go!
- BJ Woah! Go get it for me. Run, run, run. Look, it got smaller and smaller and now it's really small again.
- Child Now can I blow it up.
- BJ Well, this is one. You can blow up one later. 'Cause I want to show you one more thing before you go and play. How do you know how big something is? How do you know? You can see it, can't you? But you know, you can also measure. And we're going to do some measuring today. So, turn and have a look at Dion and I over here. Come over here Dion. Over here. We are going to measure our self over here. First we're going to see how tall we are. Do you ever measure yourself at home to see how tall you are? Dion, can I measure you to see how tall you are? Dion's very tall, isn't he. O.K. So here go with my pencil. There we go. Look Dion, that's how tall you are. He's very tall.
- Dion So, do you think I'm big or little?
- Children Big.
- BJ Big, yes. You are quite big, yes you are. Now another way that we can see how big Dion is – we can weigh ourselves and see how heavy we are. This is a set of scales. Do you have scales at home?
- Children Yes.
- BJ Yes? To see how heavy you are. Dion, come and –
- Child I have scales.
- BJ Oh, do you have scales at home, do you? Dion, come and stand on the scales. And we can look at the number and see how heavy Dion is. Oh, lovely Dion. So, that's how we're going to measure ourselves today. We can measure our weight or we can measure our height. So, we've got lots of things to play with in Science Time today.
- Child Are we going to go and play.
- BJ We're going to go and play. Ready, set, go! Go have a play.
- Dion So, while everyone else is playing. Let's take a closer look at our microscope. Come with me. Hi boys and girls. Today we are going to look at really small things and make them bigger and easier to see. Now, when we want to see small things we use tools. One of the tools we use is a magnifying glass. Have you seen one of these before? You can use a magnifying glass to make small things look a lot bigger. There we are. But, we're going to look at even smaller things and make them look bigger using another tool, and that's a microscope. Now, you may have seen a

microscope before. They're used by scientist and that sort of thing. But today we're going to look at something that looks a little bit different to this microscope but does more or less the same thing. This is our microscope here. But I think I'll need BJ's help with this one. So, BJ do you want to come and help.

- BJ Hi boys and girls, how are you? Hi Dion, what are we doing today?
- Dion We're going to have a look at some really small things and make them bigger using a microscope. So the first thing we're going to look at is BJ's eye. Now, is BJ's eye big or small, do you think? Yes, I think it's a little bit small actually. So we're going to try to make it look bigger and easier to see using our microscope. Ready?
- BJ Ready.
- Dion Wow. Can you see her eye? It looks a lot bigger and easier to see with our microscope's help. You can see all the veins. So when she blinks you can even see all the different parts of her eyelid. Really cool. Now, next I think we'll have a look at her fingerprint. Now, if you look at BJ's finger can you see anything? It looks pretty smooth. It looks like a normal finger. But what where going to do is we're going to use our microscope to look a bit closer. There we are. So, can you see all the lines and all the rough bits on the fingerprint? Because that is what we're look at. We're looking at something called a fingerprint. And it's not that easy to see unless we have something like a microscope to see it with. Now, the next thing we're going to look at is BJ's arm. Now, if you see BJ's arm does it look smooth or rough? It looks pretty smooth, doesn't it? So, we're going to have a look and see what it looks like with our microscope. Oh, that looks really different, doesn't it BJ?
- BJ Yeah, I can see all the hairs.
- Dion You can see the hairs and all the rough skin as well. It looks very, very different because we can see all the small detail using our microscope. Now, the last thing we're going to have a look at is BJ's T-shirt. Now, what colour is BJ's T-shirt, do you think? Yeah, it's purple, it's purple. We're going to have a look at this purple T-shirt a little bit closer. So, can you see all the threads of the T-shirt? It looks very, very different, doesn't it. You can see all the cotton bits that are woven together to make the T-shirt. Now, we're going to go even closer now. We're going to look at even smaller things made bigger on BJ's T-shirt. So, you can see it makes even smaller things look bigger. You can see all the really, really small details. That's pretty cool to look at, isn't it BJ?
- BJ It looks smooth when you don't use the microscope.
- Dion It does.
- BJ But it was all rough and bumpy.

- Dion So, you can see, when we use microscopes we see things a little bit differently because you see really small things easily and it makes them look a little bit bigger. So let's go back to Science Time and see what they're doing.
- BJ Let's go – So, welcome back to the mat everybody. We had lots of fun playing in Science Time today. Dion and I want to show you one more thing before we finish on Science Time. Here are two squares. Now, they're exactly the same size. Now, I'll just hold them together like this so you can see they're the same size. But, we're going to do something now that's going to make one of them look bigger and one of them look smaller. So, I'm going to bring these two cards and hold them right here. So, they look pretty big, don't they? Now Dion, can you come and take one of the cards and move away? Everyone watch the card that Dion's got. Is that card looking smaller now? Look how little that card looks! Because it's a long way away. It looks really small. Now Dion, can you bring your card back really slowly and watch it get bigger and bigger and bigger until they are the same size again. When something's a long way away it looks small. That's why the sun looks small in the sky because the sun is really huge –
- Dion It's very big.
- BJ It's very big but it's a long, long, long way away. Well done. Thank you Dion. Excellent. So, sometimes things the same size can look bigger or smaller. Now, before we go today, we've got something for you to take home with you. First, we've got our parent information sheet.
- Child I want to give one to Nana.
- BJ You can give one to Nana, that's a fantastic idea. And this is on our website. You can download it at home and have a look at some great ideas about big and little.
- Child I'm going to give it to Pa.
- BJ Are you going to give yours to Pa? That's a great idea. Now, this is our colouring in picture today. What is this a picture of?
- Child An elephant.
- BJ And elephant and what's this one.
- Child A mouse.
- BJ A mouse. Which animal is the biggest?
- Children An elephant.
- BJ And which animal is the smallest?
- Children A mouse. Fantastic. So, before I give these out can everyone look at the boys and girls at home and can we all wave and say
- BJ & Dion See you next Science Time.



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BJ Bye, bye. See you next time.