

Who Measures What in Our Neighborhood?

K-1 Classroom

Expanded Web

Students Elaborated from the Second Topic Web

What I Now Know About Measuring!

1 To 10 Rating Scale

- HB: I saw a dessert scale in a book about scales. It was kind of a chart, and if you didn't like the dessert you said "1" and if you did like it you said "10". And there are all the numbers in between that you could say too, like 9,8,7,6,5,4,3,2. There were 2 boys and 1 girl in the book. The girl didn't like the pudding and she said "1".
- WJ: A Pet scale measures how much a person likes a pet. It has numbers 1 through 10 on it. 1 means last best and 10 means the one that you really, really like. There was a mouse, a dog, kitty cat, frog, and fish in the book. The boys and girls in the book were saying if they liked or didn't like them by the pet scale.
- NO: A pet scale is when you have a pet that you like the least you put it at number 1 and number 10 is your favorite animal. It's a piece of paper with 1,2,3,4,5,6,7,8,9,10 on it.
- VM: I did not know there was a 1 to 10 scale. It measures how much you like things like a tornado that turns umbrellas inside out. Those tornados would be a 9 or 10. It would be a 10 if it's the best tornado and a 1 if it's the worst tornado - like it would just lift a rock out of your hands.
- MB: I know there are different kinds of scales. There are spring scales and balanced scales. If one weight is high and the other is low on a balance scale, the low one is heavier.
- TB: You could make a scale of your favorite months by putting your favorite at the bottom and then your least favorite at the top. We read in a book that a chart can be a scale too, but I'm not sure how.

Vocabulary

- JC: Albumen is the curly stuff inside an egg. You can measure it. I saw it in a book but I don't remember how they measured the albumen.
- KC: An oil stick is a stick that measures how much oil you have in your car. You stick it in to where the oil is and there is an "F" for full and an "E" for empty on the stick.
- JC: There is an air bubble in an egg. It gives the developing chick air.
- JC: I didn't know there was a lambing jug. The mother sheep is not nice to her babies. So they put her head in a hole and what happens is that they give her food and water. Then the babies can get their milk.
- HB: An egg has a yolk in the middle. Twisted threads called the chalazae keep the yolk in the middle of the egg. Chicks have different numbers of toes. First they have 3 and then they have 4. That's a type of measuring--counting!

Weight

- MB: Scales measure how much something weighs. I want to be a construction worker, but if I didn't know how to measure I would never be able to be a construction worker and I wouldn't be able to measure wood with a ruler. They also measure concrete with a ruler.
- HB: I know there is such a thing as a balance scale. It balances to show you weight. If one side is down, it means that side is heavier. If the scale balances both sides weigh the same. There are also doctor's scales where you can have yourself measured. On a bathroom scale, you can measure yourself.
- JN: You can measure sheep with a sling. You put the baby sheep on the sling and there's a measuring thing at the top and you hold it up with the baby sheep in the sling and the spring scale at the top tells you how much the sheep weighs.
- AB: There is a sling at a sheep barn. At the sheep barn they measure how much water and how much food the sheep get. They use a bucket with numbers on the side to measure the food and water. They put the baby sheep in a sling and they hold it up on a hook on a scale and the scale tells how big it weighs.
- MB: I didn't know that how heavy you weigh is measuring. If you get on a scale at the doctor's office it would tell you how much you weigh. You need to know how heavy you weigh because it helps keep you healthy and lets you know if you are big enough not to be in a car seat anymore.
- LS: You can measure an egg with a balance scale. It might weigh 300 pounds. You can measure a fire and a fire truck. You can measure the sides of the truck. You can measure eggs on a balance scale. You put the egg on one side and something else on the other side like a flower and see which one weighs more or less. On a scale I think the egg would be 30 pounds. You can also measure the yolk inside the egg. And you can measure a chick.
- NO: I never knew there were such things as calibrated weights. They are weights that are very carefully made so that they can be exactly the weight you want them to be. You would might want to measure a chick and you might want to see what calibrated weight they are.
- PJ: Special doctor scale. A scale that doctor's use to measure people, how tall they are. It's big and it has a part to tell how tall you are.
- TB: The farmer measures the sheep's wool in the barns. If he didn't, he wouldn't know how much wool the sheep were producing. He has to wait for the wool to grow back. When he knows how much wool he has, the farmer knows what he can do with it--sell it or make something with it.

Ruler

- CS: You can measure fire with a measuring tape. You put the ruler on your body to see how big you are and then you go in the fire with a suit on and measure it with your body. You also have to measure how much water you spray on the fire so you don't flood the house.
- ST: Firemen measure fire. I never knew that firemen could measure fire. They use a tape measure. They stretch it and they are far away from the fire. They can also measure the smoke.
- WJ: You always have to measure a paper airplane to make it work. To make a paper airplane, you have to get a piece of paper and measure where to fold it.
- DM: Kids can measure with a ruler or tape measure. They have numbers so you can measure chicks. And you can use a scale to measure the chicks.
- MB: Scale measured how much. I want to be a construction worker because if I didn't know how to measure I would never be able to be a construction worker and I wouldn't be able to measure wood with a ruler. They also measure concrete with a ruler.

- TB: Yardstick is 3 feet long. They have 36 inches and they have 5 little spaces in the middle. The people at the water survey have to measure the wells so that they know there is enough water.
- AH: You can use a ruler to measure corn to see how long the ears are. And you can measure with a tape measure. You can also count how many little corn pieces there are. You can also measure the plant that the corn ear was on.
- MW: Length - how long, Width - how wide. I had only heard the word "width" one or two times. But now I know that "width" means how wide something is.
- KW: Measuring is important - how to build things. They measure wood and metal so they can build things. You can't measure lightning bolts. You can measure a door.
- HB: You can measure air. You might want to measure it to see how much air is in a tire.
- AC: I didn't know that you had to measure pottery to make it just right. If you don't measure it, it might explode when you cook it. Then it would fall apart.
- JK: I did not know that you could measure water. But now I know that you can measure water by using a tool that has a long string that has numbers on it and on the side there an iron. You unroll the string down into a hole in the ground and when the string can't go any more and it beeps then you have to pull it up and it tells you how deep it is.
- SD: You have to measure seeds if you want them to grow, because if you didn't measure how far apart they were, one plant would take over the other.
- NB: I didn't know you could measure water underground. You get a baler and you put it in a well and water comes up in it and you take a thermometer thingy and you put it in the water to see how hot or cold it is. You can measure where the water begins in the hole in the ground. You take a coil and put it in the hole and it beeps when it touches the water.
- BH: You can measure how tall flowers are with a ruler. You could go outside into your garden to see how tall the plants are if you feel like it. You could also predict how tall the plants are going to be, so you can think where you want to plant them. You can measure all kinds of plants.
- VM: There are different sizes of chicks. You can measure them with a ruler or any measuring device.
- LS: You can measure the wind with a pipe. You take a pipe and then it catches the wind and it measures if it is really blowing hard or if it is not.
- KC: I never knew a pencil can measure. You can measure how tall you are or how big a table is. You put the pencil end to end and you mark the place with your finger before you move the pencil. Your parents wouldn't like it if you marked it with the pencil!
- NB: A foot ruler is a small ruler that can measure small things like a chick.
- LS: I didn't know that we measure people. If you want to know if people are taller than you, then you can measure.
- DM: I didn't know that you measure tables and carpets. My mommy told me you could measure them with a tape measure. You can cut the carpet to be the right size.
- DM: I didn't know that you measure seats.

Clocks & Time

- PJ: A clock measures time. It measures hours in the day, minutes in the hour and seconds in the minutes. I have a clock at home. It used to be in my room, but since I moved to a new house I don't know where it is.

- ER: Clocks measure by hands because every hour it tells a different number. There are 12 numbers on a clock. There is one number for every hour. There's a long hand and a short hand on the clock. The long hand tells the minutes and the short hand tells the hours.
- AC: Calendars measure the months and weeks. Calendars have a lot of pages and the pages have numbers on them. The numbers are for the days in the month. They have Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday on them. Time is on clocks. A clock can measure time by ticking hours and seconds and minutes.
- CS: It takes 21 days for chicks to hatch. The temperature has to be 100 degrees for chicks to hatch too.
- HB: It takes 21 days to have eggs hatch. I found this out from a chart at school by the chicks. In three or less days they can start eating and drinking and walking.

Thermometers

- CS: The thermometer has to be 100 degrees for a chick to hatch. It can't be too hot or too cold. 100 degrees Fahrenheit.
- MW: If it's not the right temperature for chicks they will burn or freeze. The right temperature is 100 degrees Fahrenheit. 99 degrees is okay too, I think. The incubator keeps the eggs at 100 degrees.
- SD: The person who invented the Fahrenheit scale for a thermometer was named Fahrenheit.
- BK: I didn't know that a kiln temperature could go to 1000 degrees. It needs to be that hot, so the clay can get solid.
- LS: You can measure ice. You could measure how thick it is with a ruler. You wouldn't want to walk on ice if it were thin.
- MW: 32 degrees Fahrenheit is the temperature that water freezes. I think water boils at 100 Centigrade. That's 212 Fahrenheit.

Helpful

- JK: I didn't know measuring would come in so handy. Doctors measure people at the hospital to fix them. I measure my house and things.
- SD: Measuring would be so helpful. If you didn't measure stuff, like a door, it wouldn't fit in the spot it was supposed to.
- CS: I didn't know measuring came in handy. If you want to know to know how much you weigh or how tall you are, you need to measure.

How Much

- LS: You can measure coins--how many you have in a roll. If you didn't know it was the right money roll you might not have the right kind of coin you needed or the right amount.
- TB: The mile gauge in a car tells how many miles the car has gone.
- AH: You can measure in a car. You can measure how much gas you still have or how much air is in your tire.
- WJ: Fractions help measure. If you have halves and quarters you can measure half a piece of pie.