Technology Integration Lesson Plan

CONTENT AREA: Math

TOPIC: Non- Standard Unit Measurement

GRADE LEVEL: 1 **TIME TO COMPLETE:** 2-3 class periods (45 minutes-1 hour each period)

TECHNOLOGY FOCUS/ APPLICATION TEKS: 1 A-C, 2 A, D, 3 A, 7 A-B, 8 A, 10 A-B, 11 A-B

CONTENT AREA TEKS: 1.7 A-B

CONTENT OBJECTIVE(S):

1. Students will use non-standard units to measure various items in the classroom/school.
2. Students will estimate how many units the object is before measuring.
3. Students will use the digital camera to take a picture of the item.
4. Students will create 2 slides in Power Point about the item they measured.

RESOURCES/MATERIALS:

1. Digital Camera(s)
2. Computers with Power Point
3. Non-standard units to measure with (Unifix Cubes, Blocks, Paper Clips)
4. Paper and Pencil for recording data

LESSON PROCEDURE:

1. Introduce the students to the concept of measurement and using non-standard items for measuring the length of objects.
2. As a whole group estimate the length of an item and demonstrate measuring the object using a non-standard unit of measurement.
3. Show students how to use the digital camera and go over the rules for the digital camera.
4. Either assign students objects to measure in the room, or have them choose an object to measure.
5. Students, working with a partner, will take a picture with the digital camera of the object they will measure . (It's a good idea to have one of the students in the picture with the object.)
6. Students (with their partner) estimate how many of their non-standard units of measurement the length of the object will be.
7. Students record their estimate on their data sheet.
8. Students measure the length of the object using their non-standard units of measurement.
9. Students take a photo (with the other partner in it) of the object showing the units of measurement.
10. Students record the actual length of the object on their data sheet.
11. Students work with their partners in the computer lab or on the classroom computers to create two Power Point slides. The students will use the Title Only slide both times.
12. Students insert the first photo on Slide 1 and type a sentence (or more) about their estimate of the

object. "We estimated that the pencil would be 10 paper clips long."

13. Students insert the second photo on the second slide and type a sentence (or more) about the actual length of the object. "We measured the length of the pencil with paper clips. The pencil was 7 paper clips long."
14. The students should save the Power Point presentation to their student folder on the shared drive (in a folder the teacher creates).
15. The teacher will "pull together" the Power Points into one presentation.
16. Optional extensions: students may format text or add a background color to the slides. Students may record their voices reading the information on the slides. (Each partner will record on one slide.)

TYPE(S) OF ASSESSMENT: Accuracy of measurements, Power Point presentation shared with class

CREATED BY: Thank you to LISD technologists for generously sharing this resource.