#### DOCUMENT RESUME

ED 413 796 FL 801 201

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TITLE Measuring and Comparing: A Content-Based ESL Unit.

INSTITUTION Lake County Coll., Grayslake, IL.

SPONS AGENCY Office of Vocational and Adult Education (ED), Washington,

DC. National Workplace Literacy Program.

PUB DATE 1997-00-00

NOTE 42p.

PUB TYPE Guides - Classroom - Learner (051) -- Guides - Classroom -

Teacher (052)

EDRS PRICE MF01/PC02 Plus Postage.

DESCRIPTORS Basic Skills; Class Activities; Classroom Techniques;

\*Comparative Analysis; \*English (Second Language); Grammar;

Lesson Plans; Mathematics Instruction; \*Measurement;
\*Measurement Equipment; Second Language Instruction;

Teaching Guides; \*Vocabulary Development

IDENTIFIERS \*Content Area Teaching

#### ABSTRACT

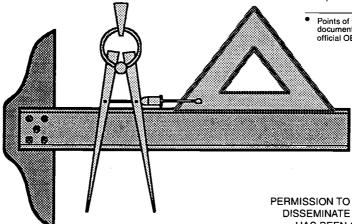
The materials in this unit include a teacher manual and student book for an 18-day English-as-a-Second-Language (ESL) unit in measurement and comparisons. The teacher manual contains a list of instructional objectives for the unit, daily lesson plans, vocabulary chart, metric conversion table, a series of class activities, signs for labeling activity stations in the classroom, and instructions for an ancillary activity in making comparisons. The student book contains visual aids, worksheets, and exercises. (MSE) (Adjunct ERIC Clearinghouse on Literacy Education)



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# Measuring and Comparing

A Content-Based ESL Unit

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In Collaboration with: Mary Kay Gee,
Project Director, National Workplace Literacy Program



M easuring and Comparing is a content-based ESL unit written to meet the tandem goals of teaching students the essential vocabulary and grammar of measuring and comparing and practicing oral and written English skills. The unit covers a four week time period, assuming a two hour class period. The specific objectives for each activity in the unit are listed below.

Activity #	Objective
1	LEARN VOCABULARY AND CONCEPT OF LENGTH AND WIDTH
2	PRACTICE CONVERSION OF INCHES AND CENTIMETERS
3	LEARN VOCABULARY AND CONCEPT OF HEIGHT and MEASURE BODY PARTS
4	INTERVIEW CLASSMATES
5	ENTER INFORMATION INTO DATABASES
6	GENERATE COMPLETE SENTENCES FROM DATABASE
7	GENERATE COMPLETE SENTENCES FROM DATABASE
8	PRACTICE GRAMMAR OF COMPARING: GOOD, BETTER, and BEST
9	ACQUIRE AND PRACTICE VOCABULARY OF WEIGHT
10	ACQUIRE AND PRACTICE VOCABULARY OF SPEED
11	CLASSROOM OLYMPICS
12	CLASSROOM OLYMPICS
13	ASSESSMENT
14	ASKING QUESTIONS: GIVING A SURVEY
15	GIVING RESPONSES:
16	WRITING A SHORT PARAGRAPH
17	IMPROVING SHORT, REPETITIVE SENTENCES
18	EDITING SIMPLE PARAGRAPHS

The Measuring and Comparing document contains 2 parts, daily lesson plans for the unit, and a student booklet to be used with the unit. Throughout the daily lesson plans the student booklet is referred to as **SB**, and there are additional procedural notes for the teacher in brackets. ([ ]).



#### Measuring and Comparing Daily Lesson Plans

#### Day 1: LEARN VOCABULARY AND CONCEPT OF LENGTH AND WIDTH

- 1. Class looks at graphics on page 1 of SB. Teacher reads vocabulary and discusses.
- 2. Students, in pairs, label the length and width of 6 objects in the classroom using strips of post-its. Teacher models by taking a post-it strip, walking to an object, saying the word, then writing the word on the post-it and putting the post-it on the length or width of the object.
- 3. Class walks around room together and discusses width and length: Make generalization that <u>length</u> is the <u>longer</u> one.
- 4. Students measure objects from #2 and record on page 2 of SB.
- 5. **HOMEWORK** #1: Repeat above with home objects (SB p.3).

#### Day 2: PRACTICE CONVERSION OF INCHES AND CENTIMETERS

- 1. Class discusses homework from Day 1. Students share pictures of what they measured and use complete sentences to tell the dimensions of the length and width of what they measured.
- 2. Class reviews terms width and length.
- 3. Students turn to SB page 4. Teacher uses transparency copy of completed chart (below) to discuss terms for length and width. Teacher introduces vocabulary of rulers, meter stick, and tape measure by showing objects. Students copy terms into empty squares on SB page 4 as teacher discusses and explains.
- 4. Teacher introduces inches versus centimeters. Teacher shows a ruler with both units and class discusses when they have used both.
- 5. Teacher explains and illustrates idea of changing one unit for the other; conversion. Teacher shows transparency of conversion table and formulas (below).
- 5. SB Page 5 to practice conversion. Students choose objects to measure in the classroom and work conversion formulas to complete page 5.
- 6. Class shares results.
- 7. **HOMEWORK** #2: SB #6



how long or short • ruler • meter stick • tape measure • how wide or narrow • ruler • meter stick • tape measure • how tall or short someone • ruler • meter stick • tape measure • is • how heavy or light • scale something is • watch • watch • something moves • clock • stop watch	Measuring	What does it mean?	THINGS WE	UNIT
how long or short something is tape measure something is how vide or narrow are ruler something is how tall or short someone are ruler is tape measure something is tape measure are rape measure something is tape measure are rape measure are something is tape measure are something is something is something moves are clock are ruler something moves are clock are ruler are something moves are clock are ruler are something moves are clock are ruler are rul	Word		MEASURE WITH	
something is  how wide or narrow something is  how tall or short someone is  how heavy or light something is  how fast or slow something moves something moves something moves something moves stop watch something is something moves stop watch something is something moves stop watch something is something moves stop watch something moves stop watch something moves stop watch something is something moves stop watch stop	length	how long or short	• ruler	• centimeters
how wide or narrow ruler something is how tall or short someone ruler is how heavy or light something is something moves clock something moves clock ruler store how fast or slow something moves clock ruler store how fast or slow clock ruler something moves clock ruler something moves clock ruler ruler something moves clock ruler ruler something moves clock ruler r		something is	<ul> <li>meter stick</li> </ul>	• inches
how wide or narrow ruler something is how tall or short someone ruler is how heavy or light something is something moves clock something moves clock stop watch something moves stop watch something moves stop watch something moves clock something moves stop watch something moves stop watch something moves stop watch something moves stop watch something moves something moves stop watch something moves stop watch stores something moves stop watch stores stop watch stores stop watch stores stop watch stores stor			• tape measure	• feet
how wide or narrow • ruler • ruler something is • tape measure • tape measure is • tape measure • ruler is • tape measure • ta				• meters
how wide or narrow ruler something is tape measure how tall or short someone ruler is how heavy or light something is how fast or slow something moves clock something moves clock ruler stored by the fact or slow something moves clock ruler significant something moves clock ruler significant significant something moves clock ruler significant signif				• miles
how wide or narrow ruler something is tape measure how tall or short someone ruler is tape measure how heavy or light something is how fast or slow something moves clock stop watch stop w	. 141			• kilometers
something is  how tall or short someone • ruler is  how heavy or light something is  how fast or slow something moves • watch • watch • clock • stop watch • something moves • stop watch	Width	how wide or narrow	• ruler	• centimeters
how tall or short someone • ruler • is • tape measure • tape measure • how heavy or light • scale something is • how fast or slow • watch • something moves • clock • stop watch • stop wat		something is	meter stick	• inches
how tall or short someone • ruler • meter stick • tape measure • how heavy or light • scale something is how fast or slow • watch something moves • clock • stop watch • stop			• tape measure	• feet
how tall or short someone ruler meter stick tape measure tow heavy or light something is how fast or slow something moves clock to stop watch stop watch stop watch to sto				• meters
how tall or short someone • ruler is • meter stick • tape measure • how heavy or light • scale something is how fast or slow • watch something moves • clock • stop watch • st				• miles
how tall or short someone • ruler is • meter stick • tape measure • tape measure • something is • how fast or slow • watch something moves • clock • stop watch •	1 1.			<ul> <li>kilometers</li> </ul>
how heavy or light something is how fast or slow something moves elock something moves estop watch stop watch something moves estop watch	neignt	how tall or short someone	• ruler	• centimeters
how heavy or light something is how fast or slow something moves clock something moves estop watch stop watch		18	<ul><li>meter stick</li></ul>	• inches
how heavy or light something is how fast or slow something moves clock stop watch stop watch stop watch			<ul> <li>tape measure</li> </ul>	• feet
how heavy or light something is how fast or slow something moves clock stop watch				• meters
how heavy or light something is how fast or slow something moves clock stop watch stop watch something moves stop watch				• miles
how heavy or light something is how fast or slow something moves clock stop watch stop watch stop watch	1	-		<ul> <li>kilometers</li> </ul>
something is  how fast or slow something moves something moves stop watch	Weight	how heavy or light	• scale	• spunod
how fast or slow • watch • something moves • clock • stop watch •				• grams
something moves  something moves  stop watch  stop watch		-		<ul> <li>kilograms</li> </ul>
moves • clock • stop watch •	sbeed		<ul> <li>watch</li> </ul>	• seconds
• •			• clock	• minutes
• days			<ul> <li>stop watch</li> </ul>	• hours
				• days



#### Converting Metric Units to English Units

#### Conversion Table:

Unit	=	Conversion Number
1 inch	equals	2.54 centimeters
1 centimeter	equals	0.3937 inch
1 foot	equals	0.3048 meter
1 meter	equals	3.2808 feet
1 yard	equals	0.914 meter
1 meter	equals	1.0936 yards
1 mile	equals	1.609 kilometers
1 kilometer	equals	0.621 mile

#### Conversion Formula:

To convert metric units to customary or customary to metric, use the following formula:

#### • Metric to Customary:

Metric Unit x \*Conversion Number = Customary Unit

Example: 12 inches x = 2.54 (conversion number) = 30.48 centimeters

#### • Customary to Metric:

Customary Unit x \*Conversion Number = Metric Unit

Example: 6 centimeters x = 0.3937 (conversion number) = 2.36

\*See Conversion Table above



#### Day 3: LEARN VOCABULARY AND CONCEPT OF HEIGHT and MEASURE BODY PARTS

1. Discuss homework from Day 2.

2. Introduce HEIGHT. Teacher uses chart from Day 2 and repeats procedure for showing scales, discussing vocabulary on chart, and asking students to complete HEIGHT section of empty table on SB page 4.

3. Students measure teacher for height, then for all body parts. Class decides on standard places to begin and end measurements. Record measurements on

OHP with sheet like the one on SB page 7.

4. Students divide into pairs and measure each other. Record on SB p.7.

#### Day 4: INTERVIEW CLASSMATES

- 1. Teacher models interviewing students to get information to complete chart on SB p. 8.
- 2. Students interview each other and complete their charts on SB p. 8. They use phrases:

_			
"How long is your _	?"	"How wide is your	?'

#### Day 5: ENTER INFORMATION INTO DATABASES

- 1. Teacher models how students can use charts from Day 4 to enter information into a database on a computer. Teacher shows students how to access a field, enter the data, and save the data.
- 2. Students use completed charts from Day 4 to insert data into databases. [NOTE: This activity can be omitted if teachers do not have access to a computer lab environment where students can work alone or in pairs to enter the information. The activity requires that the instructor generate a database with fields that are identical to the chart on SB p. 8 so that students can enter the information.]

#### Day 6 and 7: GENERATE COMPLETE SENTENCES FROM DATABASE

- 1. Teacher distributes copies of database. [Teacher needs to print copies of completed databases from Day 5 for distribution.]
- 2. Teacher asks: "Whose nose is longer, Juan's or Jin Hee's?"
- 3. Students respond, teacher writes sentences of answer on OHP.
- 4. In pairs, students write 10 or more true sentences about the database on page 9 of SB.



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#### **Day 7:**

- 1. Students share their sentences from Day 6 with class. Class edits sentences as needed.
- 2. Homework #3: (SB p. 10)

#### Day 8: PRACTICE GRAMMAR OF COMPARING: GOOD, BETTER, and BEST

- 1. Discuss and share homework from Day 7.
- 2. Teacher asks: How far do you think I can step?
- 3. Students record prediction on SB page 11. Teacher steps, students record.
- 4. Teacher introduces GOOD BETTER and BEST.
- 5. Teacher models writing about her/his steps on OHP; students copy onto SB p. 11.
- 6. Teacher asks students to predict how far THEY can step, and record on SB p. 11.
- 6. With partners students step, measure, and record all 3 trials.
- 7. Students individually write complete sentences about what they did.

#### Day 9: ACQUIRE AND PRACTICE VOCABULARY OF WEIGHT

- 1. Teacher shows balance scale and asks for name of object (SCALE).
- 2. What do we use it for? To WEIGH things.
- 3. What is weight? How heavy or light something is. Teacher asks students to fill in weight terms chart on page 4 of SB.
- 4. Teacher chooses 2 things in the room and asks, Which one do you think is heavier? (Teach PREDICT: to guess smartly!)
- 5. Teacher records prediction on OHP, then actually weighs objects and compares predictions to actuality.
- 6. Students repeat activity with new objects in the room and record both predictions and actual weights on chalkboard so they can discuss.
- 7. Students repeat activity with a set of boxes. [Before class teacher fills 3 small boxes with different weighted items such as cotton balls, pencils, and paper, etc. Teacher covers or colors the boxes purple, blue, and black. Items need to be somewhat close to each other in weight or the predicting is too easy.]
- 8. Teacher first passes each box around the room one by one so students can predict which is heavier. Complete SB #12.



#### Day 10: ACQUIRE AND PRACTICE VOCABULARY OF SPEED

- 1. Teacher introduces fast and slow by running, walking at different speeds.
- 2. Teacher says SPEED is how slow or fast something moves. Teacher asks how we measure speed. Class volunteers ideas.
- 3. Teacher asks what units we record speed in.
- 4. Class fills in speed vocabulary on chart on SB p. 4.
- 5. Teacher demonstrates cotton ball on a spoon relay, asks a student to record results with a stop watch.
- 6. Students record trials and answer questions on SB # 13.

#### Day 11 and 12: CLASSROOM OLYMPICS

1. Students predict and participate in activities and record data on their charts for classroom Olympics. [Directions to activities and station directions for Speed Trial follow] SB #14



## PAPER STRAW JAVELIN THROW



- 1. Estimate the distance (in cm) that you think you can throw the "javelin" Record.
- 2. Place feet on starting line. "Throw "javelin". (One throw only.)
- 3. Measure distance from starting line to the position of the "javelin." Record on score sheet.

MINI-NETRIC OLYMPICS TASK CARD

# COTTON BALL SHOT PUT



- 1. Estimate the distance (in cm) that you think you can throw the "shot" Record.
- 2. Place feet on starting line.
  Throw the "cotton ball shot"
  (One throw only.)
  Measure distance from
  starting line to the position
  of the cotton ball.
  Record. 7 61986 AIMS Education Foundation

MINI-METRIC OLYMPICS

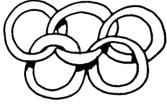
# RIGHT-HANDED MARBLE GRAB



1. Estimate (in grams) the amount of marbles you can grab in your right hand. Record.

2. With right hand only, grab a fistful of marbles from the container.

Weigh on a balance scale. Record.



JMINI-METRIC OLYMPICS TASK CARD

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Math + Science, A Solution



# Station #1:

- 1. Pick up a pencil.
- 2. Balance it on your index finger.
- 3. Walk to Station #2.



# Station #2:

- 1. Drink the cup of water.
- 2. Walk to Station #3.



# Station #3:

- 1. Pick up the ball.
- 2. Bounce the ball 20 times.
- 3. Smile! You're finished!



#### Day 13: ASSESSMENT

- 1. Students write complete sentences about Olympic results in SB page 15. [They use their charts from SB p. 14 to generate sentences.]
- 2. Students fill in blank chart of terms on SB page 16.

#### Day 14: ASKING QUESTIONS: GIVING A SURVEY

- 1. Teacher asks students: What is the best hamburger in Chicago? Discuss.
- 2. Teacher explains what a SURVEY is, and they look at Best of Chicago survey on SB p. 17.
- 3. Class generates one more question to ask and adds as #8 of the survey.
- 4. Students practice asking questions with WHAT IS ...?
- 5. Students give each other the survey from SB p. 17.
- 6. Class discusses how to record responses.
- 7. HOMEWORK: Students are given 5 copies of the survey each and 3 days to complete it outside of class with volunteers either from the workplace or outside.

#### Day 15: GIVING RESPONSES: Tabulating results of survey

- 1. Teacher is at computer [or chalkboard], and asks for responses for each question. Teacher records.
- 2. Class discusses giving the survey.

#### Day 16: WRITING A SHORT PARAGRAPH

- 1. Teacher distributes copies of compilation of survey results. Class discusses.
- 2. Students use data gathered and write paragraph about survey results.

#### Day 17: IMPROVING SHORT, REPETITIVE SENTENCES

- 1. Teacher on computer shows some examples of students' paragraphs. [Teacher looks at writing before class and generates samples from student work to share with class.] Then teacher discusses **COMBINING** sentences, and having **VARIETY** in writing by modeling how to combine and begin some sentences differently.
- 2. Together class discusses various ways to combine and improve the quality of their sentences, make **BETTER SENTENCES**.



#### Day 18: EDITING SIMPLE PARAGRAPHS

- 1. Class reviews ways to combine and introduce information in sentences.
- 2. Students rewrite paragraphs from Day 17.

#### POSSIBLE ANCILLARY ACTIVITY:

### OBJECTIVE: PRACTICE THE GRAMMAR AND VOCABULARY OF COMPARING

- 1. Teacher shows empty chart [below] and students discuss various animals.
- 2. Teacher assigns partners or groups.
- 3. Using the CD Animals in Our World, students research the animals and complete as much of the chart as possible.
- 4. Using the chart, students compare animal characteristics orally.
- 5. Students write a short paragraph using information from the chart.
- 6. Students share their paragraphs with a small group. The group aides the student in editing.



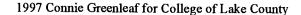
#### COMPARING ANIMALS

	Tiger	Kangaroo	Dolphin	Gorilla
l e n gt h				
h e i gh t				
weight speed			1	
s p e e d				



# STUDENT BOOK

# Measuring and Comparing A Content-Based ESL Unit

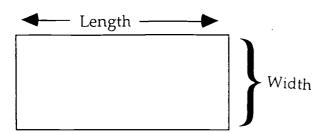


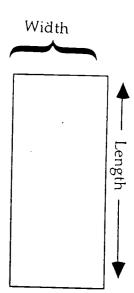


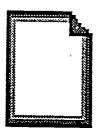
# Measuring and and Comparing

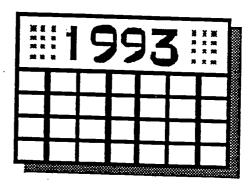


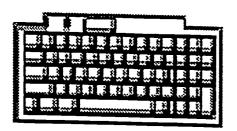
# Length and Width













# WHAT IS THE LENGTH AND WIDTH OF THESE OBJECTS?

1.	Name of Object:		
	T .1		
	Width:		
	Wiatit.		
2.	Name of Object:		
	Length:		
	Width:		
3.	Name of Object:		
	Length:		
	Width:		
4.	Name of Object: _	<u> </u>	
	Length:		
	Width:		
5.	Name of Object: _		
	Length:		
	Width:		
6.	Name of Object:		
	Length:		
	Width:		



#### Measuring and Comparing: Homework #1

#### **Directions:**

- 1. Find 6 things in your home to measure.
- 2. Draw them below and on the other side of this paper.
- 3. Label the width and length of each object.
- 4. **Measure** the width and length of each thing.
- 5. **Record** the width and length of each beside the picture.



<del></del>		•			
UNIT			,		
THINGS WE MEASURE WITH					
DEFINITION: What does it mean?		·	,		
VOCABULARY	length	width	height	weight	speed

(S)

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# WHAT IS THE LENGTH AND WIDTH OF THESE OBJECTS?

1.	Name of Object:			
	,	Centimeters	•	Inches
	Length:			
	Width:			
2.	Name of Object:			
		Centimeters		Inches
	Length:	<u>.</u>		<u> </u>
٠	Width:			
3.	Name of Object:			
		Centimeters		Inches
	Length:			
	Width:			
4.	Name of Object:	·		_
		Centimeters		Inches
	Length:			-
	Width:			
5.	Name of Object:			
		Centimeters		Inches
	Length:			
	Width:	<del> </del>		
6.	Name of Object:		<u>.</u>	
		Centimeters		Inches
	Length:			
	Width:		27	



#### Measuring and Comparing: Homework #2

#### MILES and KILOMETERS

How many meters are there in a kilometer?
Americans use miles to measure long distances, but most of the worl uses kilometers.
How many miles are there in a kilometer?(Remember: Divide the number of kilometers by 1.6 to change to miles)
<ul> <li>About how many kilometers is it from downtown Chicago to you home?</li> </ul>
About how many miles is it from downtown Chicago to your home?
<ul> <li>About how many kilometers is it from your home to your workplace?</li> </ul>
About how many miles is it from your home to your workplace?



	Measuring My Body
WHOLE BODY: Height:	
EARS: Length: Width:	HAND: Length: Width:
EYES: Length: Width:	MOUTH: Length: Width:
ARMS: Length:	THUMB: Length:
SHOULDERS: Width:	LEG: Length:
FOOT: Length: Width:	_ ·



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# Measuring Our Bodies

Foot	M							 :		
	7								•	
Shoul	M									·
Mouth Thumb	r									
outh	M			_						
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Hand	L	-			Ĭ		_			
Leg	L		-							
Arm	L									
Eye	W									
<b>H</b>	L									
Whole Body	H									
	NAME									

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	COMPARING OUR BODIES	
1		<u>.</u>
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<u>5.</u>		<u> </u>
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9.	· · · · · · · · · · · · · · · · · · ·	<u> </u>
10.		_



#### Measuring and Comparing: Homework #3

#### **Directions:**

- 1. Look at the database of our class's measurements.
- 2. Write complete sentences to compare **your** measurements to **other** students' measurements.

1				_		
						_
2.						
4						
			÷			
			·			
6.						
7.						
				_	-	
8.		_				
	-					



#### HOW FAR CAN YOU STEP?

### Good Better Best

PREDICTION: I think my teacher can step
First Step:
Second Step: Third Step:
Write 3 sentences comparing the steps using GOOD, BETTER, and BEST.
1
2
3
PREDICTION: I think I can step  First Step: Second Step: Third Step:
Write 3 sentences comparing your steps using GOOD, BETTER, and BEST.
1
2
<del></del>
3



WHICH BOX IS THE HEAVIEST?
Prediction: I think the box is the heaviest.
I think the box is the lightest.
What happened? How much did the boxes weigh?
Black box:
Purple box:
Blue box:
Write complete sentences comparing the boxes.
<u> </u>



#### How fast can you walk?

How fast can you walk with the cotton ball on the spoon?
Trial #1:
Trial #3:
Answer these questions:
Which trial was your fastest?
Which trial was your slowest?
Write complete sentences comparing your trials.



EVENT	TRIAL # 1	TRIAL # 2	
	Estimate Actual	Estimate Actual	
Speed Trial			
Javelin			
Throw			
Cotton Ball			
Throw			
Marble			
Grab	,		



#### ASSESSMENT

#### **Directions:**

- 1. Look at the Olympics database.
- 2. Write complete sentences comparing the results of the Olympics.

•		1 0		, 1
OR EXAMPLE	E: Paul was faster th	nan Pedro in th	e speed trial.	
•				
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<u>'.                                    </u>				
	<u> </u>			
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UNIT					
THINGS WE MEASURE WITH				·	
DEFINITION: What does it mean?					
VOCABULARY	length	width	height	weight	speed

**€** 

## The **Best Of Chicago** Survey

1.	Who makes the best pizza in Chicago?	_
2.	Who has the best sports team in Chicago?	
3.	What is the best lake in Chicago?	_
4.	What is the most interesting TV program in Chic	ago? _
5.	What is the most beautiful building in Chicago?	
6.	What is the best radio station in Chicago?	_
7. -	What is the best restaurant in Chicago?	
8.		?







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