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ABSTRACT

This vocational instructional module on the printers' system of measure is one of eight such modules designed to assist recently arrived Arab students, limited in English proficiency (LEP), in critical instructional areas in a comprehensive high school. Goal stated for this module is for the student enrolled in graphics courses to learn the printers' system of measure. Each module consists of these parts: title; program goal and performance objectives; a pronunciation key; a language page which offers the pronunciation, definition, and usage of key terms in English and in Arabic; a pretest; bilingual (English and Arabic) language (vocabulary and usage) activities; evaluation; pretest and activity answer sheets; and a list of supplementary materials and their location. For each of the four activities in this module the objective, a list of materials needed, procedure, and evaluation are provided in addition to the necessary activity sheets or pages. (ATB)

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FORDSON BILINGUAL DEMONSTRATION PROJECT

برناج فوردرون النموذجي المناتج اللغاتم الثنائي اللغاتم الثنائي اللغاتم الثنائي اللغاتم المناسبة المناس

PRINTERS' SYSTEM U.S. DEPARTMENT OF EDUCATION OF MEASURE

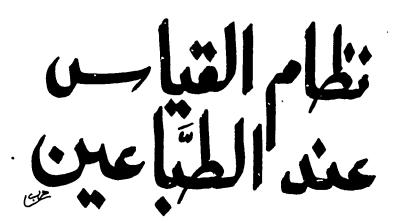
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ABOUT THE PROJECT

The Fordson Arabic Bilingual Demonstration Project is designed to assist recently arrived Arab students, limited in English proficiency (LEP), to adapt to a large and comprehensive high school. The project consists of academic and vocational instructional modules, reading services to teachers and students, bilingual aide and resource services, computer and television modules, staff development activities, and home-community liaison.

ABOUT THE INSTRUCTIONAL MODULES

The modules were designed to assist LEP students in critical instructional areas throughout the school curriculum. These areas of focus were determined by a needs survey of the entire Fordson school community. Each module consists of seven parts: title, objectives, pretest, language (vocabulary and usage) activities, evaluation, and supplementary materials. Modules were translated, duplicated, and field tested.

ABOUT THE AUTHOR

Ray Pizzino did his undergraduate work at Wayne State University and his graduate work at the University of Michigan. Ray has worked for ten years in Dearborn in the Industrial Arts Department teaching Automotive, Printing, and Graphics. The major concepts of this unit were those defined as critical for beginning limited English proficiency students in Graphics.

CORDSON



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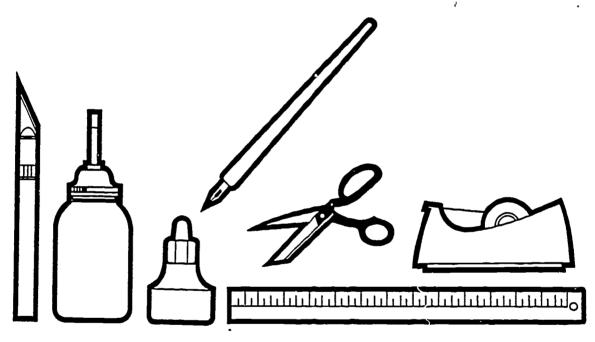


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GRAPHIC ARTS

PRINTERS SYSTEM OF MEASURE

Developed By: اعسدا

Ray Pizzino

This bilingual module has been developed to assist limited English proficiency students in learning the Printers' System of Measure. The unit is designed for students enrolled in graphics courses.

GENERAL OBJECTIVE:

Using a line gauge, the student will be able to measure width and length of copy and line length in printers' terms.

SPECIFIC OBJECTIVES:

Given 2-6 examples of copy, the student within one week will:

- Measure the width of various copy in inches, and convert it to picas and points with 100% accuracy.
- 2. Measure the depth (length) of various copy in inches, and convert it to picas and points with 100% accuracy.
- 3. Measure line length in inches, and convert it to picas and points with 100% accuracy.



PRETEST

اختہار تمہیدی

DIRECTIONS: Write the answers to the following questions in the space provided,

تعليمات : اكتب الاجوبــة للمسائل التالية في الفراغ المتوفر •

PRONUNCIATION KEY

/a/ as in Adam

 \sqrt{a} as in cake

/e/ as in let

/ē/ as in meet

/i/ as in sit

/i/ as in ice creum

/o/ as in hot

/o/ as in Coke

/u/ as in Seven Up

 $/\overline{u}/$ as in blue

/b/ as in boy

c equals /s/ as in cents (10¢)

/k/ as in \overline{c} at

/d/ as in day

/f/ as in four

g equals /g/ as in go /dz/ as in page

/h/ as in he

j equals /dz/ as in jail

/k/ as in kick

/1/ as in Cola

as in man

/n/ as in man

/p/ as in Dr. Pepper

qu equals /kw/ as in quit

/r/ as in run

·/s/ as in <u>s</u>un

/t/ as in <u>t</u>en

/٧/ as in yan

/w/ as in woman

as in extra

as in yet (sometimes $/\bar{e}/$ as /y/

in many)

/z/ as in zebra

/sh/ as in shut

/ch/ as in church

/ng/ as in sing

/th/ (voiced) as in this

/th/ (unvoiced) as in thing

oo equals /u/ as in food /u/as in $g\overline{ood}$.







صفحاة لغاة

DIRECTIONS: Read, pronounce, spell, and use in a sentence the words listed below.

copy (ko'pi)
length (lenkth)
line gauge (lin gāj)
line length (lin lenkth)
picas (pī' kas)
points (points)
width (width)

copy
 any furnished material, words and pictures to be printed

 The printer must always measure copy accurately.

length how long a thing isThe length of a ruler is 12 inches.

width
 how wide a thing is
 The width of the river is 15 feet.

تعليمات: إقرأ ،ألفظ ،هجيءً ، ثم إستعمل الكلمات المذكسورة أدنساه في جمل ،

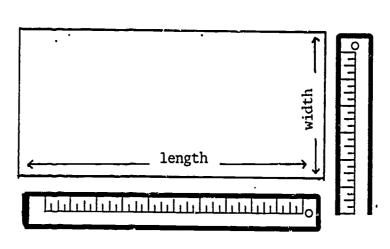
> , نسخة طول معيار خط طول خط بيكا بنوط (مفردها بنط) عصد في

ـ نسخـة اية مادة مجهزة ،كلمـات، وصور كي تطبع •

يجب على الطباع قياس نسخة الطباعة بدقة •

٢ - طول
 ما هو طول شيء الله على الله المسطرة ١٢ إنشــا .

َ ـ عرض ما هو عرضشيء يبلغ عرضالشهر ١٥ قدمــا" ٠





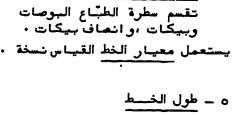
ع ـ كعيار الذ

LANGUAGE PAGE (continued)

- 4. line gauge printers' ruler, calibrated in inches, picas, and half picas.
 The line gauge is used to measure copy.
- 5. <u>line length</u> the length of a line of type The line length of this copy is three inches.
- printers' unit of measure
 l pica equals 1/6 of an inch
 Six picas equal one inch.
- 7. point

 printers' unit of measure
 12 points equals 1 pica

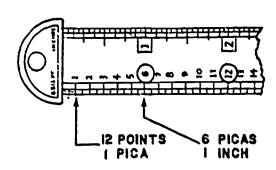
 Seventy-two (72) points equal one inch.



طول خط الحرف الطباعي ان طول خذه النسخة هو شلاشة بوصات •

ا مد بينت وحدة قياس لدي الطباعين ان بيكا واحدة تساوي ١/٦ البرصة البوصة الواحدة تساوي ست بيكبات ٠

٧ - بنط
 وحدة قياس لدي الطبّاعين
 ان ١٢ بنطا" تساوي بيكا واحدة
 ان اشتان وسبعين (٧٢) بنطا" تساوي
 بوصة واحدة ،



To the student:

للطيسالب

You are going to learn: to convert inches to picas and points.

سوف تتعلم کیف تحول بوصات الی بیکات وبنوط ۰

In order to do this you will be given: a pencil and a line guage

لكي تقوم بهذا الامر ،سوف تعطي : قلم رصاص ومعيار خط

You will be doing the following: reading and measuring the standard printers' measures:

سوف تقوم بما يلي : قراءة وقياس مقاييس الطباعين المعترف بها (المعتمدة)

6 picas = 1 inch 12 points = 1 pica 72 points = 1 inch

٦ بيكات = ١ بو**مة** ١٢ بشطا" = ١ بيكا ٧٢ بشطا" = ١ بو**مة**

We will know you can do this when: you have completed the post-test evaluation with 80% accuracy. سنعرف ان بوسعك القيام بهذا الامر عددما : تكمل "الاختبار اللاحق" التقويمي بدقة تعادل ٨٠ ٪ ٠



DIRECTIONS: On this worksheet lines. Use your l measure each line, length in inches,	ine gauge to and write its	تعليمات : امامك عدة خطوط على هذه المفحة • استعمل "معيار الخط" الذي معك لتقييس كل خط شـم اكتب طوله بالبومات والبيكات والبنوط •
-	= 1½ inches = 7½ picas	مثـل : = ۱ ۱/۲ بوصـة = ۱ ۱/۲ بیکات
	= 90 points	"نطئا
(1)		(1)
= in	ch	= بومة
= pi	ca	ــــــ =
= po	ints	" <u> </u>
(2)	= inch	(۲) = بوصة
	- = picas	= بیکات
, ` .	= points	" Lh:
(3)		. (٣)
	= inch	ــــــــــــــــــــــــــــــــــــــ



picas

points

(٤)

STUDENT ACTIVITY 1 (continued)

(4)			
	. =	inch	ـــ = بومة
	= *	nicas	ا

points

(6)			
=======================================	inch		
=	picas		
=	points	•	

= ہیکات	
- بنطا =	
	(0)
ــــــــــــــــــــــــــــــــــــــ	
" الليب =	
" بنطا =	
	(٦)
= سوصة	
ـــــــ = بيكا	

هدف :

STUDENT ACTIVITY 2

OBJECTIVE:

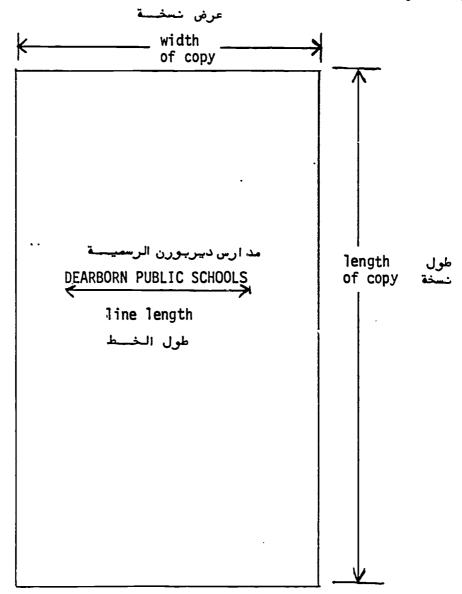
Given examples, you will learn to identify copy, width of copy, length of copy and line length.

من خلال الامثلة التي ستعطى لك،سوف تتعلم التعرف على : نسخة ،عرض نسخة ،طول نسخة وعلى طول خط •

DIRECTIONS:

Study this example of length, width, line length, and copy.

تعليمات : ادرس هذا المثل للطول ،والعرض وطول الخط والنسخة ،



The enclosed area above is the copy.

المساحة المسورة اعلاه هي نسخة

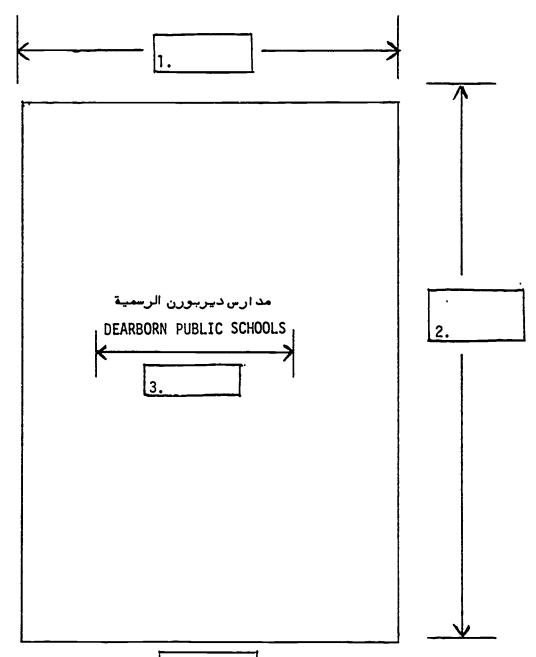


STUDENT ACTIVITY 2 (continued)

DIRECTIONS:

On the example below fill in the boxes with the correct terms.

ضع داخل المستطيلات المرقمة من (١) الى (٤) ما يناسبها من عبارات •



The enclosed area above is the:

المنطقة المسوّرة اعلاه هي :



DIRECTIONS:		•	: 4
Using a line gauge, mea of the copy in inches.	sure the width	نس عرض	معيار الخط ،ن البوصة ،
a. The width is b. The width is			ض يساوي ض يساوي
	•		



DIRE	ECTIONS:		تعليمات
Usir	ng a line gauge measure the	length ~	استعمل معيار الطول لقيا
in p	picas.		الطول بالبيكا •
		•	
á.	The length is p		أ _ يبلغ الطول
b.	The length is in	ــ بومات ·	ب ـ يبلغ العرض
	¢		
			7



DIRECTIONS: Using a line guage measure the line length in picas, points and inches.			تعليمات استعمل معيار الطول لقيساس طول الخط بنالبيكنا والبونط والبوصة •		
b. The	e line length is e line length is e line length is	points.	ـــــــــ بونطا"	ب ــ يبلغ طول الخط ــــ	
		PUBLIC SCHOOLS مدارس دیربورن			



EVALUATION

Use pretest for post-test evaluation.



OPTIONAL HOMEWORK ACTIVITY:

Have the students bring to class examples from newspapers or magazines copy of different advertisements, showing the various dimensions: width, length, line length.



ANSWER KEY

STUDENT ACTIVITY 1

- 1. 3/4 inch 4 1/2 picas 54 points
- 1 1/2 2. inch picas 108 points
- 3. 2 inches 12 picas 144 points
- 4. 1/2 inch 3 picas 36 points
- 5. 2 1/4 inch 13 1/2 picas 162 points
- 6. 1/4 inch 1 1/2 picas 18 points

STUDENT ACTIVITY 2

- 1. width
- 2. length
- 3. line length
- 4. copy

STUDENT ACTIVITY 3

- a. 3 1/4 b. 19 1/2

STUDENT ACTIVITY 4

- a. 18
- b. 3

STUDENT ACTIVITY 5

- 12
- b. 144
- C. 2

EVALUATION

- 24
- 2.
- 3. 72
- 4. 5. 36
- 144
- 6. 1/2.
- 7. 48 ·
- 8. 1 1/2
- 21 9.
- 10. 108



SUPPLEMENTARY MATERIALS

Printing Layout and Design by Delmar

Fordson Print Shop

Photo Offset Fundamentals
by John E. Cogoli

Fordson Print Shop

Overhead Transparency
 (Student Activity 2)

Fordson Print Shop

