LIRE 12.7 Thorndike's scale for ring handwriting. A series of riting specimens were scaled rical "muality" scale. To use • **scale** a student's sample of ng is matched to the quality of e of the specimens and assigned e given numerical value. This figure s only some of the specimens.

showed that the rise and fall of the tides the attraction of the moon and sun upon

Then the carelessly dressed gentleman stepped lightly into Warren's carriage and held out a small card, John vanished be

Then the carelessly dressed gentlemen stepped lightly into Warren's carriage and held out a small card, of

Then the carelerly dressed gentlemen Stepped lightly into Warrens corriage and held out a small card, John Manished I whind the

bushes and the couringe served along down the driveyay. Se andre

led or the

Source: From "Handwriting," by E. L. Thorndike, 1910, Teachers College Record, 11, 62, 65, 70, and 73.

FIGURE 9.7 Example of an analytic scoring rubric for the essay on selection, placement, and classification decisions.

1.	Reasons for distinguishing decision contexts	(4 points)	
2.	Selection decisions a. Description b. Example of selection decision	(2 points) (2 points)	
3.	Placement decisions a. Description b. Example of placement decision	(2 points) (2 points)	
4.	Classification decisions <ul><li>a. Description</li><li>b. Example of classification decision</li></ul>	(2 points) (2 points)	
5.	Comparison of the three decision types a. Similarities b. Differences	(4 points) (4 points)	

 $u_{i}$ 

FIGURE 9.9 Example of a holistic	Quality standard	Marks
scoring rubric for the essay on		16-20 /
selection, placement, and	Level 4	
classification decisions.	Makes explicit comparisons among the three types of decisions.	#
	<ul> <li>Includes both similarities and differences in the validity argument needed to support each decision.</li> </ul>	i de la companya de l
	Gives concrete examples of the different decisions.	£
	<ul> <li>Gives examples of the types of validity evidence needed for these specific examples.</li> </ul>	
	Level 3	11–15
· ·	<ul> <li>Makes explicit comparisons among the three types of decisions.</li> </ul>	
	<ul> <li>Includes both similarities and differences in the validity evidence needed to support each decision.</li> </ul>	es de la companya de
	<ul> <li>Gives a few concrete examples but does not elaborate on the specifics of how they apply to the validity argument in each case.</li> </ul>	
	<ul> <li>Discusses validity and its necessity but only weakly links it to each decision type.</li> </ul>	. 7
	Level 2	6–10
	Describes the three types of decisions, and implicitly compares them.	
	Does not elaborate on their similarities and differences.	
	<ul> <li>Uses "textbookish" and not very specific descriptions and examples.</li> </ul>	
	<ul> <li>States that validity is important but doesn't link it to different evidence needs for each decision.</li> </ul>	,
	Level 1	0–5
	<ul> <li>Describes some or all of the three types of decisions but does not describe them correctly and/or does not compare their similarities and differences.</li> </ul>	
	<ul> <li>Examples may be abstract and/or do not match the decision.</li> </ul>	
•	The different type of validity evidence is not discussed properly.	

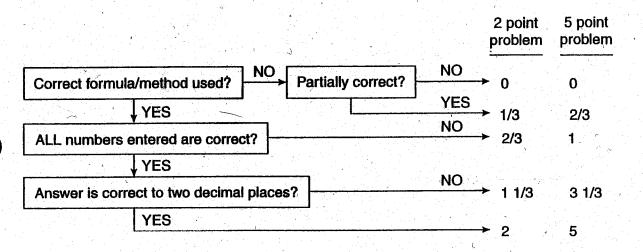
: '

FIGURE 11.13 Example of a simple rating scale for assessing the quality of a student's oral presentation.

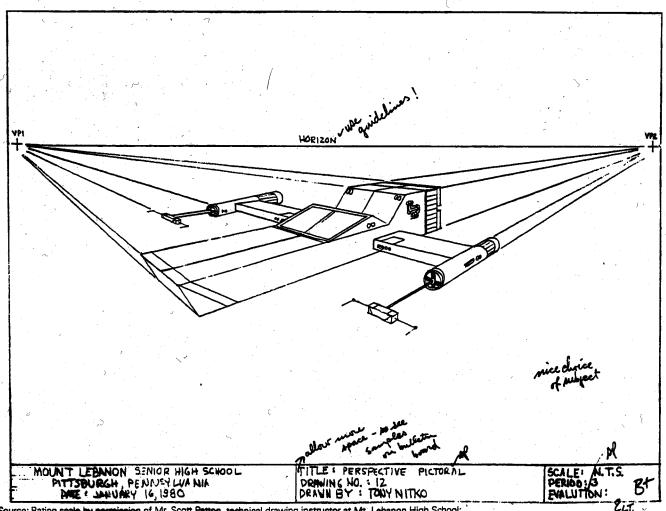
		Rating Scale for Classro	om Speech	λ
upil's name			Date _	
peech topic	*			
. Did the spee	ech contain content meanir	ngful to the topic?		•
		2	3	4
•	Most of speech content not truly meaningful	Only about 50 percent of speech relevant	Most content relevant; occasional irrelevant idea	All content obviously and clearly related
Was the deli	very smooth and unhesita	ting?		
	1	2	3	4
	Long pauses and groping for words in almost every sentence	Pauses and groping for words in about 50 percent of sentences	Occasional pauses and groping for words	Delivery smooth; no pauses or groping for words
		~		
Did the spea	aker use correct grammar?	) 		Ā
•		i	3 1	
	Errors in most sentences	Errors in about 50 percent of sentences	From 1 to 3 errors	No errors
. Did the spea	aker look at his audience?	2	3	4
7	Looked away most of the time	Looked at audience only 50 percent of the time	Looked at audience most of the time	Looked continually at audience

Source: From C. M. Lindvall and A. J. Nitko (1975). Measuring Pupil Achievement and Aptitude (2nd ed.). New York: Harcourt Brace Jovanovich (p. 220). Reprinted by permission of the authors.

FIGURE 9.8 Example of an analytic scoring rubric for awarding partial credit to the computations arising in mathematics word problems. (The columns at the right show how the partial credits are distributed differently when the total points for the problem change from two to five.)



CRITERIA OF DRAWING EVALUATION
8 TITLE BLOCK take more time
LINE IECHNIQUE
10 CENTERING AND SPACING
ARCS, CIRCLES, TANGENTS
SPACING OF DIMENSIONS
PLACEMENT OF DIMENSIONS
ARROWHEADS
9+ NEATNESS, OVERALL APPEARANCE
SOLUTION
TOTAL 53 AVERAGE GRADE B+



Source: Rating scale by permission of Mr. Scott Patton, technical drawing instructor at Mt. Lebanon High School; drawing courtesy of Anthony Nitko Jr.

FIGURE 12.4 A checklist for assessing a student's performance in setting up and using a microscope.

	Student's Actions	Sequence of actions	<u>(</u>		e .
1.	Takes slide	1	au.	Asks, "What do you want me to do?"	
R, i	Wipes slide with lens paper	2	av.	Asks whether to use high power	
•	Wipes slide with cloth		aw.	Says, "I'm satisfied"	
			ax.	Says that the mount is all right for	
	Moves bottle of culture along the table			his eye	
	Places drop or two of culture on slide	3	ay.	Says he cannot do it	19,24
• .	Adds more culture		az.	Told to start to new mount	
•	Adds few drops of water		aaa.	Directed to find object under low	
	Hunts for cover glasses	4		power	20
=	Wipes cover glass with lens paper	55	aab.	Directed to find object under high	
	Wipes cover glass with cloth			power	
	Wipes cover with finger	_ 3		Skills in which student	Sequence
1.	Adjusts cover with finger			needs further training	of actions
	Wipes off surplus fluid		a.	In cleaning objective	٦ -
•	Places slide on stage	6	b.	In cleaning eyepiece	· - 1
	Looks through eyepiece with right eye		C.	In focusing low power	<del></del>
	Looks through eyepiece with left eye	7	d.	In focusing high power	12
	Turns to objective of lowest power	9	е.	In adjusting mirror	
	Turns to low-power objective		f.	In using diaphragm	1 2
	Turns to high-power objective	21	g.	In keeping both eyes open	
	Holds one eye closed	8	h.	In protecting slide and objective from	
	Looks for light	7	***	breaking by careless focusing	<b>4</b>
• ,	Adjusts concave mirror	· <u> </u>	•		
	Adjusts plane mirror			Noticeable characteristics	Sequence
	Adjusts diaphragm	/		of student's behavior	of actions
	Does not touch diaphragm	10	a.	Awkward in movements	
L.	With eye at eyepiece turns down		b	Obviously dexterous in movements	<u> </u>
	coarse adjustment	11	C.	Slow and deliberate	- √
<b>)</b> .	Breaks cover glass	12	d.	Very rapid	-
3.	Breaks slide		e.	Fingers tremble	
<b>i</b> .	With eye away from eyepiece turns		f.	Obviously perturbed	
	down coarse adjustment	<u></u>	g.	Obviously angry	
<b>J.</b>	Turns up coarse adjustment a great distance	13,22	h.	Does not take work seriously	
	With eye at eyepiece turns down fine		i.	Unable to work without specific	
•	adjustment a great distance	14,23	- •	directions	
۵.	With eye away from eyepiece turns	17,20	1.	Obviously satisfied with his unsuccessful efforts	√.
	down fine adjustment a great distance	15		unsuccessiul efforts	
<b>n.</b>	Turns up fine adjustment screw a great distance			Characterization of the student's mount	Sequence of actions
	Turns fine adjustment screw a few turns		a.	Poor light	1
ı.	Removes slide from stage	16	b.	Poor focus	· · · · · · · · · · · · · · · · · · ·
L.	Wipes objective with lens paper		C.	Excellent mount	
	Wipes objective with cloth		d.	Good mount	<del></del>
A.	Wipes objective with finger	17	е.	Fair mount	
L.	Wipes eyepiece with lens paper		f.	Poor mount	<del></del>
	Wipes eyepiece with cloth	i de la companya de l	g.	Very poor mount	
).	Wipes eyepiece with finger	18	h.	Nothing in view but a thread in his	
	Makes another mount		***	eyepiece	
,	Takes another microscope		i.	Something on objective	
	Finds object		ı.	Smeared lens	1
	The state of the s			— <del>-</del> - · - · · -	

Source: From "A Test of Skill in Using a Microscope" by R. W. Tyler, 1930, Educational Research Bulletin 9, p. 494. Reprinted by permission.