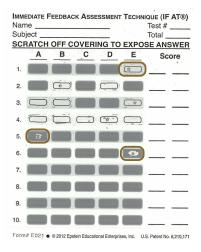
Scratcher (IFAT) Forms for Conceptual Test Questions in Introductory Courses

July 29 2015 Nicole Ackerman Agnes Scott College



USING IF-AT FORMS

IMMEDIATE FEEDBACK ASSESSMENT TECHNIQUE (IF AT®)								
Name Test #								
Subject						Total		
SCRATCH OFF COVERING TO EXPOSE ANSWER								
	Α	В	С	D	E	Score		
1.					*		_	
2.							_	
3.					(×		_	
4.				(F)			_	
5.	新						_	
6.					(A)			
7.							_	
8.							_	
9.							_	
10.							_	
FORM# FO21 • 6 2012 Enotoin Educational Entermises Inc. U.S. Potentials Code 474								



1st Choice

2nd Choice

3rd Choice

Wrong

Identification

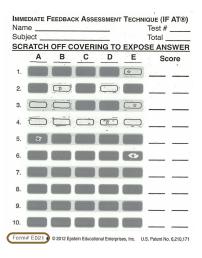
IMMEDIATE FEEDBACK ASSESSMENT TECHNIQUE (IF AT®)								
Name							#	
SCRATCH OFF COVERING TO EXPOSE ANSWER								
	Α	В	С	D	E	s	core	
1.					*			
2.						_		
3.					(×	_		
4.				(F)				
5.	*							
6.					A			
7.								
8.								
9.								
10.								
FORM# F021 a @ 2012 Enstein Educational Enterprises Inc. ILLS Retort No. 6 210 171								

1st Choice
2nd Choice
3rd Choice
Wrong

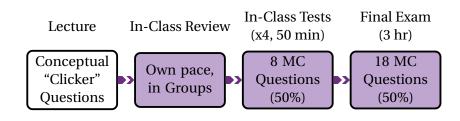
Identification

IMMEDIATE FEEDBACK ASSESSMENT TECHNIQUE (IF AT®)							
Name						Test #	
						Total	
SCRATCH OFF COVERING TO EXPOSE ANSWER							
	Α		С		Е	Score	
1.							
2.							
3.					(×		
4.				(*************************************			
5.	新						
6.					A		
7.							
8.							
9.							
10.							
Form# E021 • © 2012 Epstein Educational Enterprises, Inc. U.S. Patent No. 6,210,171							

IMMEDIATE FEEDBACK ASSESSMENT TECHNIQUE (IF AT®)							
Name Test #							
Subject Total							
SCRATCH OFF COVERING TO EXPOSE ANSWER							
	Α	В	С	D	E	Sco	ore
1.					*		
2.		(t)					
3.					(×		
4.				***)	
5.	*						
6.					The state of the s		
7.							
8.							
9.							
10.							_
Form# E021 • © 2012 Epstein Educational Enterprises, Inc. U.S. Patent No. 6,210,171							



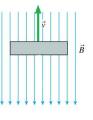
IMPLEMENTATION



MC = Conceptual Multiple Choice

EXAMPLE QUESTION

For the image shown to the right of a conducting bar moving in a magnetic field, which of the images below correctly represent the induced charge distribution?







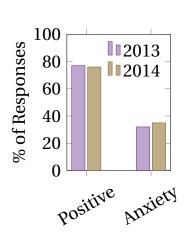






STUDENT FEEDBACK

HOW DOES THE USE OF SCRATCHERS IMPACT TEST ANXIETY?



"I like the scratchers a lot. I think it was very helpful because it prevented me from second guessing my answers, and I was able to move on 'for good' after using the scratcher."

"The scratchers added a little bit of stress, but the benefit of them is worth it. It was good to have immediate feedback, and I like that there is an opportunity for partial credit on multiple choice questions."

CORRELATION WITH "KNOWLEDGE"

DO SCRATCHERS PROVIDE BETTER ASSESSMENT OF PHYSICS KNOWLEDGE?

