Name:	Date:	

Material Science Introduction — Demo Worksheet

Instruction

Use this worksheet to organize your answers to questions during the material science demonstration. Please fill in the blanks and answer questions as the demonstration is conducted.

Ple	ase fill in the blanks	and answer ques	stions as the demonstration	on is	s conducted.	
O l 1.	bservations Indicate the correct	tile Popsicle stick plastic bag	or each material listed:	B. C.	metal ceramic composite	
2	Circle the true of d	paper clip	ach matarial Write a brid		polymer	
2.	tile:	elastic	plastic	er de	escription of the selected deformation	
	Description:	Clastic	plastic			
	Popsicle stick: Description:	elastic	plastic			
	paper clip:	elastic	plastic			
	Description:					
	plastic bag: Description:	elastic	plastic			
3.	Describe the failure of each material. Include deformation observations and failure features. tile :					
	Popsicle stick:					
	paper clip:					

plastic bag:

Naı	me:					Date:		
4.	Charac	Characterize each material failure as either brittle or ductile. Circle your answers.						
	- - -	paper clip:	brittle brittle brittle	ductile ductile ductile				
	-	plastic bag:	brittle	ductile				
		ns are the differences left in the differences in			when subjected	to force?		
6.		similarities do poly n the differences in			ubjected to a for	rce?		
7.	Why v	vould a metal be pr	eferred as a bric	lge building m	aterial as oppos	sed to a ceramic	material?	