Name:	Group:	Dato:
Name	Group	Date



MATERIALS: CONSTRAINTS AND MECHANICAL PROPERTIES

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Complete this concept review handout and keep it as a record of what you have learned.

RAW MATERIAL, MATERIAL AND EQUIPMENT

Term	Description
Raw material	
Material	
Equipment	

DEFINITIONS

• A technical object is	
A mechanical constraint describes	_
A mechanical property determines	_

PRINCIPAL TYPES OF MECHANICAL CONSTRAINTS

Mechanical constraint	Description	Example
Compression		Opening a nut with a nutcracker.

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MATERIAL DEFORMATION

Deformation	Description
	Temporary deformation: when the constraint is removed the material regains its shape.
	Permanent deformation: Even when the constraint is removed, the material remains deformed.
	Material ruptures or breaks.

SOME PROPERTIES OF MATERIALS

Mechanical property	Description	Example of an object that illustrates this property
Hardness		Marble stair.

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