	List/State the 'tool'	Low Carbon steel, DC Motor, injection moulding, gears, plastic, metal, copper, Sand Casting, Machining, grinding, battery, sustainability, land		
T		fill, robots, pick and place unit, ergonomics.	@DnTTaL	
			7	
		Materials and		
		Components		
		i I		
		Hand Held		
		'Power tools'		
		Manufacturing Use of		
		,		
Ø		Methods		
		Sprue, gearbox, chuck, two speed, variable speed, ABS, Nylon, bar		
		codes, Just In Time, Hardening, Carbon rich, Electrical circuit, vents,		
Ord will		grip, gear train, bearings, seals, power, torque.		
Name:		Date: AQA GCSE Engineering 2016 Exam Prep		

Name that picture!



Look at the pictures, and answer the following questions:

What is it?, Why is it there? What is it made from?, How is it made?, Could it be made an alternative way? Why is it made from this material? CLUE! What properties does the material have that make it suitable.

Give an alternative material they could be made from giving advantages as to why











What is it? Why is it there? _____ What is it? Why is it there? What is it? Why is it there?

What is it made from? How is it made?

What is it made from? How is it made? _____

What is it made from? How is it made? _____



Alternative Material? Why is this material suitable? _____

Alternative Material? Why is this material

suitable?

Alternative Material? Why is this material suitable? _____



Material properties?

Material properties? _____



Alternative method of manufacture?

Alternative method of manufacture? _____

Alternative method of manufacture?

Name:

Date:

AQA GCSE Engineering 2016 Exam Prep

Name:	2 Marks Date: AQA (GCSE Engineering 2016 Exam Prep
The state of the s		on upper wrist; compressed tissues on lower wrist;
	Ergonomics means:	stressful POOR stretched tendons
	1 Mark	ergonomic handle
		hand and wrist in neutral, stress-free position
		GOOD
	because	
	2 Marks Rubber would/would not help the grip	
		3
		-
		Thurshing the state of the stat
	I think this is the most comfortable design because:	
	The most comfortable design is number	
	grip, if not how would this help if it was there?	
1 10 1	Do any of them have any rubber around the	O de la companya del companya de la companya del companya de la co
	comfortable handle and is therefore more ergonomically designed?	
	Which one would you say has the most	1
	Ergonomics: Looking at food mixers 1,2 & 3.	

Name:	Date: AQA GO	SE Engineering 2016 Exam Prep	
Second Color		Rib Guss	et
	3) Explain why using a rib or gusset is important in injection moulded outer casing?		
	Sprue	Part B—	0
	Runner	Runner	
	2) Explain the following terms: Flashing	Part A	
	2) Eyplain the following terms:	Molded Part Flash	inal Part
	Finishing		
4	Heating		
	Preparation		(
	Injection moulding 1)Expand on the three areas below with regard to injection moulding, do not forget to include PPE where appropriate-		@DnTTa
Control of the Contro	Manufacturing Methods- Plastic:		Tal

Name:	Date:	AQA GCSE Engineering 2016 Exam Prep
	6)	
	5)	13)
	4)	12)
		9)
	2)	► M 0 10 to M 0 0 to
TR	1)	
	Manufacturing Methods – Me	etal gear cutting: Watch the video and fill in the blanks. 🛛 💆

