

Q1. (2018)

02.1	1st box ticked		1	AO1 6.7.1.2
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Q2. (2018)

02.2	(permanent magnet) has no effect on the aluminium		1	AO2 6.7.1.1 6.7.1.2
	iron is attracted (to the permanent magnet)		1	
	(only) the (permanent) magnet can be repelled (by the permanent magnet)		1	

Q3. (2020)

01.1	iron and steel will be attracted (to the magnet)		1	AO1 6.7.1.1
	aluminium, copper and tin will not be attracted (to the magnet)		1	
		allow 1 mark is one metal is in the incorrect list, but all the other four are correct		
		if no other mark awarded allow 1 mark for iron and steel are magnetic		

Q4. (2020)

01.2	the paperclip would still be attracted to the magnet		1	AO1 6.7.1.1
	because of induced magnetism	allow the paper clip becomes an induced magnet allow because the paper clip is a temporary magnet allow there is a magnetic field at the south pole	1	

Q5. (2021)

a)

04.1	at the poles		1	AO1 6.7.1.2
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b)

04.2	the distance between the field lines varies		1	AO1 6.7.1.2
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Q6. (2023)

04.4	bring the (same end of the) iron bar close to each pole / end of the permanent magnet	allow bring each end of the iron bar to the same pole of the magnet	1	AO3 6.7.1.1
	any repulsion shows the iron bar is a permanent magnet		1	
	or if one end of the iron bar is attracted to both poles it is not a permanent magnet			

Q7. (2023)

04.5	the compass (needle always) points in the same direction	allow the compass (needle always) points north	1	AO1 6.7.1.2
	because it aligns itself with the Earth's magnetic field	dependent on MP1	1	