

## SCIENCE REVISION PACK UNIT 4 - MAGNETISM WHAT HAVE YOU LEARNT?



Name: Grade 4/ Year 5:
Q1. Find out whether these magnets will attract or repel
S N N S S N
[ Attract / Repel ] [ Attract / Repel ]
S N S N S N S N S N S [ Attract / Repel ]
Q2. A compass uses magnetism. Which way does a compass always point?  Bast West North South
Q3. Tick [ ✓ ] the metals that magnets can pick up:
□ Gold □ Cobalt □ Iron □ Copper
☐ Aluminium ☐ Silver ☐ Steel ☐ Nickel
Q4. Complete the sentences using the word bank below.
repel north attract south pull push poles
Magnets have two One is called the pole and
the other is the pole. When opposite poles are near one another, they
together. This means the two poles When two
of the same poles are near one another, they away from one another.
This means the two poles each other.

How far is the paper clip	Q5. If we do an investigation on different magnets to see how far away they were before they picked up a paper clip, what would we find out about the magnets?						
a. Which is the strongest magnet?    Magnet	☐ How far is the paper clip ☐ How strong is the magnet						
A Which is the weakest magnet?    Magnet   Distance when attracted paperclip	<b>Q6.</b> Here are the results of the magnet investigation.						
a. Which is the weakest magnet?    Large bar magnet   10cm     Fridge magnet   2cm     O7. Tick ( / ) the magnetic objects:   Steel can	a. Which is the strongest magnet?	Magnet	1000				
A. Which is the weakest magnet?    Large bar magnet   10cm       Fridge magnet   2cm     Q7. Tick ( *) the magnetic objects:   Steel can			6cm				
Q7. Tick ( ) the magnetic objects:  Steel can	<b>a</b> . Which is the weakest magnet?	<del> </del>	10 cm				
Steel can Blocks Shell Cobalt ring  Glass Nickel keyring Sponge Steel spanner  Q8. Name each type of magnet below:  Circular magnet U-shaped magnet		Fridge magnet	2cm				
Circular magnet U-shaped magnet	□ Steel can □ Block □ Glass □ Nicke	el keyring					
Bar magnet Ring magnet	b b	Circular magne	t U-shaped magnet gnet Horseshoe magnet				

Q9. Tick ( ✓) the correct sentences and cross ( × ) the wrong sentences:
a. Some magnets have just one magnetic pole. [
<b>b.</b> Magnets can interact without touching. [
c. Electromagnets are useful because they can easily be turned on and off. [
<b>d.</b> The magnetic field strength of a magnet is weakest at the poles. [
e. An electromagnet is a permanent magnet. [
f. Magnets produce an area of magnetic force called a magnetic field. [
g. Iron, Nickel, Steel and Cobalt are magnetic materials. [
Q10. Choose the right answer:
1. A magnet can attract any material that is made from {Wood Plastic Iron}
2. An example of non-magnetic material is
3. Magnetic field lines are close together at the
4. Magnetic force between two magnets gets weaker with increase in between them. {Distance Attraction Metals}
5. Maglev Trains use magnets to reduce between the train and the tracks. {Speed Friction Gravity}
6. A rectangle shaped magnet is called a magnet. {U-shaped Bar Ring}
7 is a natural magnet. {Lodestone Sandstone Limestone}
8 the strongest magnet in the universe. {Electromagnets Magnetars Granite}

Q11. Label the poles of the magnet below:  N  S  Q12. Amira and Faisal carried out a fair test to find o hold. They wanted to know which magnet was to		
answer the questions below:	Type of magnet	Number of
a. Which magnet attracted the most paperclips?	Type or magnet	paperclips
y mon magnet annual and most pulperenps.	circular	6
<del></del>	cylinder <b>Carroll</b>	18
<b>b.</b> Which magnet attracted the least paperclips?	horseshoe	2
	bar	8
	ring	10
c. Which magnet was the strongest?	U-shaped	3
d. Which magnet was the weakest?  e. How many paperclips did the ring magnet attract  f. How many paperclips did the circular magnet att	500	
Q13. Observe the magnet and its magnetic force field	d and answer the question	ns given:
a. Where is the force field the strongest?		SATE /
<b>b.</b> Where is the force field the weakest?		<u>~</u> ✓

Q14. Sort the	objects into magne	tic materials, no	on-magnetic n	naterials or both:	2 Pineapple
	B	sin fail	aubhar.		and of food
silver ring	paperclip	tin foil	rubber	copper wire	can of food
aluminium can	hammer	nickel coin	spoon	iron screw	
Magr	netic Materials	Non-Magnet	tic Materials	Magnetic & Non-n	nagnetic
Iviagi	lette iviateriais	Non-Magnet	ile iviateriais	Magnetic & Non-in	nagnetic
11	the pictures A and f the following stat	ements is corre	ect for the belo	w given pictures?	
A N	S N	2 S	В	3 S S	4 N
☐ In A. cars	1 and 2 will come	closer and in B	cars 3 and 4	will come closer.	
				B, cars 3 and 4 will	650
☐ In A, cars	1 and 2 will move	away and in B	, 3 and 4 will o	come closer to each	other.
☐ In A, cars	1 and 2 will come	closer and in B	, 3 and 4 will	move away from eac	ch other.
Q16. Which of	f the following way	s will NOT ca	use a magnet t	o lose its magnetism	n?
	ng it strongly over a	_	19/5 25/7	on the floor repeated	120
☐ Coatin	ng it with a layer of	`oil L	Hitting it wi	th a hammer repeate	dly

Q17. How is a compass useful to us?
☐ In finding the altitude of a place. ☐ In finding only the north of a place. ☐ In making artificial magnets.
Q18. In which direction does a magnet always point when suspended freely?  South-West North-South East-West West-South
Q19. A bar magnet is immersed in a heap of iron filings and pulled out. The amount of iron filings clinging to the:
<ul> <li>□ North pole is almost equal to the south pole.</li> <li>□ North pole is much more than the south pole.</li> <li>□ North pole is much less than the south pole.</li> <li>□ Magnet will be same all along its length.</li> </ul>
Q20. Three magnets A, B and C were dipped one by one in a heap of iron filings. The picture shows the amount of iron filings sticking to them. The strength of these magnets will be:
☐ A is the strongest, B is strong, and C is the weakest. B
A is the weakest; B is strong, and C is the strongest.
☐ B is the strongest, C is strong, and A is the weakest. ☐ All magnets are equally strong.
Q21. Where does a compass work?
<ul> <li>□ Only in oceans or seas.</li> <li>□ Only on land, where the earth's magnetic field is strong.</li> <li>□ Only on high mountains.</li> <li>□ At all the places within the earth's magnetic field</li> </ul>