

Student's Name _____

Course Name: **Grade 3 Physical Science: Invisible Forces**

R - retain, D - delete, C - changed

Outcomes

R D C

Changed outcomes

Magnetic Forces	R	D	C	Changed outcomes
Students will be expected to:				
<ul style="list-style-type: none"> identify familiar uses of magnets (102-14) 				
<ul style="list-style-type: none"> investigate to identify and group materials that can be magnetized and materials that are attracted by magnets, and distinguish these from materials that are not attracted to magnets (100-31, 202-2) 				
<ul style="list-style-type: none"> investigate the polarity of a magnet, determine the orientation of its poles, and demonstrate that opposite poles attract and like poles repel (100-32) 				
<ul style="list-style-type: none"> identify problems to be solved related to magnetizing materials (200-2) 				
<ul style="list-style-type: none"> follow a simple procedure where instructions are given one step at a time to increase and test the strength of a temporary magnet by stroking it or storing it next to a stronger magnet (201-1) 				
<ul style="list-style-type: none"> make predictions about the number of objects that can be picked up by a magnet under different conditions (200-3) 				
<ul style="list-style-type: none"> make and record relevant observations in investigations on the number of objects that can be picked up by a magnet under different conditions (100-33) 				
<ul style="list-style-type: none"> use the observations to identify conditions that affect the force of magnets (201-5) Include: <ul style="list-style-type: none"> → strength of magnet → distance between object and magnet → material between object and magnet 				

<ul style="list-style-type: none"> propose answers to questions raised related to magnetizing materials (202-7) 			
<ul style="list-style-type: none"> in cooperative groups, construct and evaluate a toy that is moved by attractive or repulsive magnetic forces (201-3, 202-8, 203-5) 			
Electrostatic Forces (Forces arising from Static Electricity)			
Students will be expected to:			
<ul style="list-style-type: none"> describe and demonstrate ways to use everyday materials to produce static electric charges and describe how charged materials interact (attract, repel) (101-8, 203-3) 			
<ul style="list-style-type: none"> identify materials to be used to investigate conditions affecting the force of static electricity and suggest ways to use them in their investigations (202-7) 			
<ul style="list-style-type: none"> make and record relevant observations in investigations related to identify conditions that affect the force of static electricity and draw simple conclusions that identify these conditions (100-33, 201-5, 202-7) Include: <ul style="list-style-type: none"> → strength of charge → distance → material used 			
<ul style="list-style-type: none"> discuss what has been learned about static electricity (202-9) 			
<ul style="list-style-type: none"> describe examples of the effects of static electricity in their daily lives and identify ways in which static electricity can be used safely or avoided (102-15) Include: <ul style="list-style-type: none"> → effects – finger burn, static cling → avoiding static electricity – moisten objects, grounding 			