	Lesso	on Pla	in		
Grade: Four	Subject: Scien	ce	Term: 2 nd		Time: 40min
Teacher's Name:			Week: 6		Day: 1
Chapter 6: Force and	d Motion	Торі	c: Force		
Objective(s):					
At the end of this per	riod, the students	will be	able to:		
Describe force	and motion with e	xample	s from daily life.		
Resource Materials:					
Chalk/marker, white/	blackboard, Scienc	e Textb	ook		
Warm-up Activities					5mins
-	ng the lesson, ask s				
	e two things you ca		•		
response.	ves? Wait for the	en resp	onses. Apprecia	le li	ieni ioi goou
Teaching and Learni	ng Activities:				25mins
-	name 'Force' on t	he boar	d		
•	ou have seen many			vours	elf
-	ow things move. Le	-	-	yours	
	s move with force.		•	lona	n object
-	perience single or r				-
• •	tudy different effec	-			•
-	ject. It can stop a n			-	
	lso increase or dec	-	-		
-	kample: In a footba	-	-	-	
	-	-			
	er by pushing (Kicki cks (pushes) the fo	•••	•		
• •					
	can change the sh	•	•	•	
	empty plastic bottle			IIIIdle	eu balloon,
•	ttle and balloon an				a a ta b a a ka
Ask students to Check their wo	o list daily life exam rk	iples of	push and pull in	your	notebooks.
Review:					3mins
Explain the main poin	its about force.				
Evaluation:					5mins
To check the understa	anding of students,	, ask the	em:		
• What is force?					
• How force can	change motion? G	ive an e	xample.		
What are effect	ts of force?				
Homework:					2mins

Ask students to learn the topic.

	Lesso	on Pla	n	
Grade: Four	Subject: Science	ce	Term: 2 nd	Time: 40min
Teacher's Name:			Week: 6	Day: 2
Chapter 6: Force an	d Motion	Торі	c: Motion	
Objective(s):				
At the end of this pe	riod, the students	will be a	able to:	
Describe force	and motion with e	xample	s from daily life.	
Resource Materials	:			
Chalk/marker, white/		e Textbo	ook, Plastic bottle, W	
Warm-up Activities				5mins
•	ing the lesson, ask s			
	at is force? Wait for	r their re	esponses.	
Teaching and Learn	-			25mins
•	c name 'Motion' on			
	•		ass that force can ch	ange speed
and motion of	an object. Today w	e will le	arn what motion is?	
 Ask students h 	nave you ever saw a	footba	ll match? In football i	match, one
player passes f	football to other. Pl	ayer pa	sses the ball by hittin	g it in a
specific directi	on. He pushes it in	a specif	ic direction of anothe	er player.
When force is	applied on football	, it mov	es. This movement is	called
motion. So, "N	<pre>//otion" is the actior</pre>	n of cha	nging position of a bo	ody.
• For example, r	iding your bicycle fi	rom γοι	ir house to your frien	d's house or
pushing a box	from one room to t	he othe	er are due to motion	caused by
applying force				
 Tell them simil 	larly, you have obse	erved th	e swings in the park.	Some swings
move up and c	down, some move i	n a circl	e and some swings m	ove back and
forth. All movi	ng swings change the	heir pos	ition by applying for	e on them.
 Tell them boys examples of m 	-	, car mo	oving on a road, etc. a	are some
-		oks and	do the activities. Tel	l them to
	•		veryday life. Check t	
Review:				3mins
Explain the main poin	nts about motion.			
Evaluation:				5mins
To check the underst	anding of students,	ask the	m:	
What is motion	n?			
Give some exa	imples of motion.			
Homework:				2mins
Ask students to learn	n the topic and solve	e the giv	ven worksheet.	

Worksheet

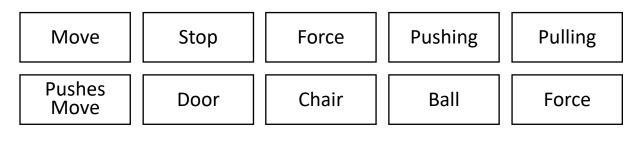
Q1. Answer the following questions.

i) Define force.

ii) Define motion. Give examples.

iii) Explain the effects of force with examples.

Q2. Fill in the blanks.



We can_____ an object or_____ a moving object by applying_____ on

them. ______ and _____ is a _____ of our daily life. A hawker ______

his cart to______ it from one place to other. Similarly, opening and closing

of_____ pushing or pulling a_____ hitting a_____ and lifting

something is done by applying_____.

	Lesson Plan		
Grade: Four Subje	ct: Science	Term: 2 nd	Time: 40min
Teacher's Name:		Week: 6	Day: 3
Chapter 6: Force and Motion	Topic: 0	Gravity	
Objective(s):			
At the end of this period, the st	tudents will be able	e to:	
 Identify gravity as a force 	that draws objects	s to the earth.	
Resource Materials:			
Chalk/marker, white/blackboard	d, Science Textbook	c, Ball	
Warm-up Activities			5mins
Before beginning the less		• •	
 Ask them: How are force a response. 	and motion related	? Appreciate them	for their good
Teaching and Learning Activiti	es:		25mins
Write the topic name 'Gr	avity' on the board		
 Tell students today we w 	ill learn about type	s of forces.	
Tell them the two common	on forces are frictio	on and gravity.	
We stand on Earth due to	o gravity.		
 We walk on ground due t 	o friction.		
 Ask the students have yo 	-	-	
ground after going up a c	-	-	
fall down on the ground.	A ball hit by a playe	er, goes up and it c	comes down
to earth.			
Ask the students: Why do			-
 Now tell them, our earth 			
its center with a specific f			-
force or gravity of the ear magnitude or value depe			ce. its
• ·		-	of arovity
 Tell them that greater the Tell them that a hall falls 	-		
 Tell them that a ball falls gravity. 	down due to pull o	Larth. This pull is	Calleu
 Tell students that gravita 	tional force is not c	only present on Fai	rth but all
other heavenly bodies ha			
 Gravitational force of the 	_	-	orbits
 Moon revolves around pl 	-		
 Gravitational force decre 			nong objects.
We can stand on Earth du			
their responses.	<i>2</i> ,	5	-

- Write the answer on the board: 'Gravity is a force that acts on everything and pulls them downwards.'
- Tell students to write the answer in their notebooks. Check their work.
- Ask students to open their textbook and solve activity.

Review:	3mins
Explain the main points about gravity.	
Evaluation:	5mins
To check the understanding of students, ask them:	
 What is gravity? 	
 Is gravity pushing or pulling force? 	
 Is gravity helpful? 	
 What are advantages of gravity? 	
Homework:	2mins
Ask students to learn the topic and write the answer of Q3 (iii) and Q4	4 (ii) of
Exercise in their notebooks.	

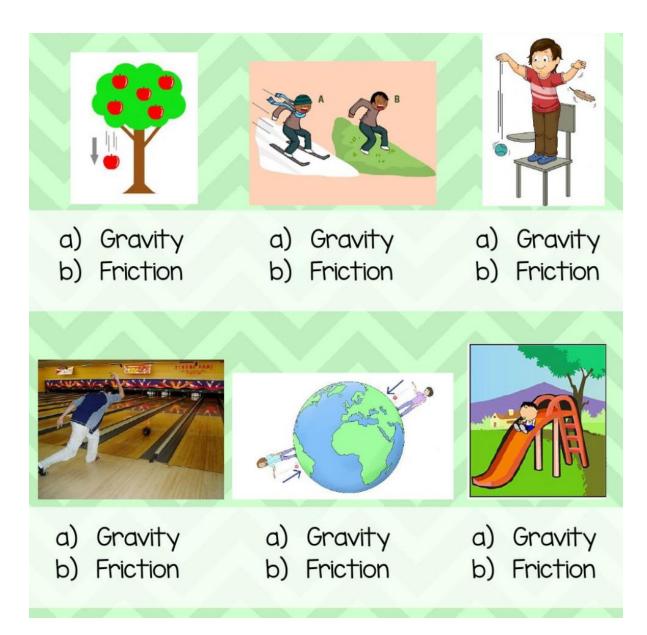
	Lesso	on Pla	n		
Grade: Four	Subject: Scient	ce		Term: 2 nd	Time: 40min
Teacher's Name:				Week: 6	Day: 4
Chapter 6: Force an	nd Motion	Торіс	: Frictio	on	
Objective(s):					
At the end of this pe	eriod, the students	will be a	ble to:		
 Investigate the 	at the frictional forc	e works	against	the direction	of motion.
Resource Materials	:				
Chalk/marker, white	/blackboard, Scienc	e Textbo	ok, Wo	rksheet	
Warm-up Activities					5mins
Before beginn	ing the lesson, ask s	students	to say '	"Tasmiya."	
• Ask them: Wh	at do you know abo	out gravit	ty? Wai	t for their res	ponses.
Teaching and Learn	ing Activities:				25mins
Write the topi	ic name 'Friction' or	n the boa	ard.		
• Tell them toda	ay we will learn abo	ut frictio	on.		
• Tell students f	riction is a force that	at is proc	duced w	hen two surfa	aces rub
against each c					
• Friction is an o	opposing force that	stops or	tends t	o stop moving	g objects.
	i have often experie				
	p pedaling bicycle, it				
	o rub your hands ar				
respond.					
Tell them heat	t is produced as a re	esult of fi	riction.		
	bject will continue			iction acts on	it. But the
	w is friction caused				
•	every surface has tir		. Smoot	h surface has	less pores
	ores are present on				-
	roduce friction. Larg	-		•	
•	example of a ball rol				
	s the ball forward. T	-	-		
-	round and cause fri	-			
direction.					
• As a result. ba	II slows down and e	ventuall	v stops.	Liquids and a	zases also
	What would happe				
	nswer this question.				
	wer on the board: 'I			-	, we would
	stop moving things.				
	to write the answer				

students to open their textbooks and do the activity.

Review:	3mins
Explain the main points about friction.	
Evaluation:	5mins
To check the understanding of students, ask them:	
Define friction.	
How is friction caused?	
Homework:	2mins
Ask students to learn the topic and solve the given worksheet.	

Worksheet

Q1. Forces, Gravity and Friction.



Q2. Tick (\checkmark) the correct answer.

Opposing force that stops or tends to stop moving objects:

- a) Force
- b) Friction
- c) Factor
- d) Gravity

Lesson Plan

Grade: Four Subject	: Science	lerm: 2 nd	Time: 40mir
Teacher's Name:		Week: 6	Day: 5
Chapter 6: Force and Motion	Topic: Advanta Friction	ges of Friction, Dis	advantages of
Objective(s):	FICTION		

At the end of this period, the students will be able to:

• Provide reasoning with evidence that friction can be either detrimental or useful under different circumstances.

5mins

25mins

Resource Materials:

Chalk/marker, white/blackboard, Science Textbook, Worksheet

Warm-up Activities

- Before beginning the lesson, ask students to say "Tasmiya."
- Ask them: What do you know about friction? Wait for their responses.
- Appreciate them for good response.

Teaching and Learning Activities:

- Write the topic name 'Advantages of friction' on the board.
- Tell students friction is a blessing of Allah (SWT).
- Tell them it helps us in many ways.
- Friction has many important roles in our daily lives. We cannot walk or hold objects without friction. We even cannot stop moving objects without friction.
- Ask students have you ever observed your shoe sole pattern/design? Why uneven pattern does you see on it? Let them respond.
- Tell them if patterns are not present on shoe soles and they are smooth, there are more chances to be slipped away. Uneven patterns provide more friction and help in walking.
- Ask students have you ever wondered how you are able to hold objects? Wait for their responses.
- Tell them it is because of friction that you are able to hold objects. You are able to write because of friction.
- Ask students to imagine what would happen if a car is moving with speed on a slippery road and its brakes are not working. Wait for their responses.
- Tell them an accident might happen. It's because of friction we become able to stop or slow down a moving vehicle. It prevents vehicle from slipping on the road. But how does it happen?
- When we apply brakes, the brake pads rub against the rim and produce friction.
- The friction makes the vehicle stops after slowing down its movement.

- Now write the topic name 'Disadvantages of friction' on the board.
- Tell students although friction is helpful in many ways, sometimes it causes problems.
- Ask students what happens when you erase some words on your paper. Let them respond. The eraser wears away when you rub it against paper. This is because of friction.
- Friction causes wear and tear of moving objects. It is because of friction the tires of vehicles get flat after some time. Friction causes wear and tear of tires. Same thing happens with soles of shoes.
- Friction also slows down moving objects and produces heat. That's why we need to apply more force to overcome friction.
- Discuss with students about advantages of friction and consequences we will face if friction is not present. Appreciate them to participate in discussion.
- Ask students to open their textbook and do activity.

Review:

3mins Explain the main points about advantages and disadvantages of friction.

Evaluation:

To check the understanding of students, ask them:

- How friction is helpful in daily life?
- How does friction help us in walking?
- How is friction disadvantageous? Give examples.

Homework:

2mins

5mins

Ask students to learn the topic and solve the given worksheet.

Worksheet

Q1.	What	is	friction	?
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Q2. How friction is produced?

1	
۷	
3	
Q3. Ex	plain the advantages and disadvantages of friction with examples.
1	· · · · · · · · · · · · · · · · · · ·
1	
1	· · · · · · · · · · · · · · · · · · ·
1	
1 2	