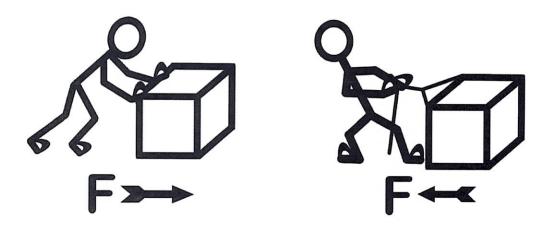
Name	Date	

## Force: **Push or Pull**

Force is any push or pull that is applied to an object. Any movement of an object is caused by either a push or a pull. When pushing, you are exerting force away from your body. When pulling, you are exerting force towards your body. Exert means to put into action.



Certain activities require a push. To throw a ball you must push it away from you. To pick up an object you must pull it towards you. Some activities require both pushing and pulling. For example, when people swim, we pull with the arms and push with the legs.

It is possible to push or pull almost any object, but you must use a specific force to accomplish a specific movement. Some objects, like wheelbarrows and buttons on video game controllers, are designed to be pushed. Some objects, like combs and ropes, are designed to be pulled. Other objects, like yo-yos and vacuum cleaners, are designed to be pushed and pulled.



Name	Date
F	Force: Push or Pull
the word push or pull	day activities that involve exerting force. Write to indicate the type of force you would exert to ctivities use both push and pull.
	1. kicking a ball
,	2. typing on a keyboard
	3. walking
	4. writing with a pencil
	5. lifting a book
	6. swinging a baseball bat
	7. digging a hole with a shovel
	8. standing up
	9. jumping on a trampoline

10. ringing a doorbell

12. playing the piano

11. starting a lawnmower with a cord

## **Friction** A moving ball on a ground stops after some time. Name the force responsible Q.1 for it. 2. Name the Type of friction in following tow cases: Out of the above two types of friction name the friction which requires less effort. 3. Match the following :i) Bird Measures the force acting on an object. a) Spring Balance ii) b) Static friction iii) Moving body c) Lubricant Reduces friction iv) d) Drag Choose the correct option :-4. Static friction comes to play when the object is i) a) Rolling b) Sliding c) Moves from rest d) None Rolling friction comes to play when the object is. ii) Rolling a) b) Sliding c) Comes to rest d) all of these

iii)	In many machines, friction is reduced by using :  a) Ball-Bearing
iv)	A ball is rolling in north direction, in which direction, does the frictional force act.  a) North
5.	Sometimes, force of friction is desirable, give three examples.
i)	
ii)	
iii)	
6.	Cross-Word puzzle :-
	1 R T O 3 2 P G A E
	5 L G T N
	N S
Hint	
2. TI 3. TI 4. TI	Force which opposes motion.  The device used to measure the force acting on an object.  The substance which reduces friction.  The frictional force exerted by fluids.  The resistance to friction when a body rolls over the surface of another body