Grade 4 Science

Force, Work and Energy

A	Fill in the blanks.			
1 ^				
	is a wedge, while a is a lever.			
2	use the force of fast flowing water to generate electricity.			
3. A	is made from a wheel and a rope.			
4	energy is generated with the help of wind mill.			
5. A moving body slows down or stops due to its force.				
6. A force pulls all objects towards the centre of Earth.				
В	Name the kind of force being used in each case.			
1. Raj lift a brick from ground.				
2. The doorbell rang. Sheetal ran to the door.				
3. The cup fell from Shaan 's hands and broke into pieces				
4. The stone rolled down the slope and fell into the river.				
5. A rubber band changes when stretched.				
С	State true or false.			
1. Machine makes our work easier.				
2. A slide is an example of pulley.				
3. Non living things need energy to do work.				
4. Force applied by our muscles is called magnetic force.				
5. Th	e electricity generated by water is called hydroelectricity.			

D Give two examples for each of the following.

1. Complex machines:-	
2. Lever:-	
3. Wedge:-	
4. Wheel and axle:-	
5. Inclined plane:-	
6. Pulley:-	
7. Simple machine:-	
8. Screw:-	
9. Fuels:-	
10. Source of energy:-	

E | Find the odd one.

- 1. Coal, Petrol, Water, Oil.
- 2. Candle, Bulb, Fan, CFL.
- 3. Hammer, Nutcracker, Scissor, Knife.
- 4. Bottle cap, Hammer, Nutcracker, See-saw.

F Match the following.

Column 1	Column 2
1. Coal	a. Muscular energy
2. Solar energy	b. Elastic energy
3. Fishing reel	c. Sun
4. Pole vault	d. Fuel
5. Muscle	e. Wheel and axle

Answers

A. 1. hammer, knife 2. Dams 3. pulley 4. Wind 5. frictional 6. gravitational В. 1. Muscular force 2. Mechanical force 3. Gravitational force 4. Frictional force 5. Elastic force C. 1. True 2. False 3. False 4. False 5. True 6. False D. 1. Crane, Sewing machine 2. See-saw, Hammer 3. Forks, Knives 4. Fishing reels, Dough rollers 5. Slide, Ramp 6. Elevators, Sailboats 7. Lever, Wedge 8. Jar lids, Bottle caps 9. Coal, Petrol 10. Sun, Wind E. 1. Water 2. Fan 3. Knife 4. Bottle cap F.

4. b

5. a

1. d

2. c

3. e