1	What is a force?	A push or a pull on an object
2	What is a force? What do forces do?	A push or a pull on an object They can change the shape, direction or speed of an object
3		They can change the shape, direction of speed of an object
3	How do we represent different forces on a diagram?	Arrows
4	How do we represent the size of a	
-	force on a diagram?	The length of the arrow represents the size of the force
5	What apparatus measures force?	A Newton meter
6	What is the unit and unit symbol for	
	force?	Newton, N
7	What is a contact force? Give an	A force that acts between objects that are touching.
	example of a contact force	Examples: friction, air resistance
8	What is a non-contact force? Give	A force that acts between objects that are not touching.
	an example of a non-contact force	Example: weight, magnetic force, electrostatic force
9	•	A pair of equal and opposite forces of the same type acting
	What is an interaction pair?	between two objects
10	What are the sizes of the forces in	·
	an interaction pair?	The same size but in the opposite directions
11	Give an example of an interaction	Pushing down on a table, throwing a ball, gravitational
	pair	attraction between 2 objects with mass
12	What is deformation?	Changing the shape of an object
13	What is compression?	Decreasing the length of an object
14	What is extension?	Increasing the length of an object
15	What is a reaction force?	A contact force from a solid surface
16	What is Hooke's law?	The extension of a spring is directly proportional to the force
		applied to the spring, up to the spring's elastic limit
17	What does it mean if two things are	Doubling one also causes the other to double. E.g, for a
	'proportional'?	spring, doubling the force also doubles the extension
18	Describe what is meant by a	The point beyond which a spring will not return to its original
	material's elastic limit	length when the force is removed
19	Describe the shape of the graph for	Straight line graph that goes through (0,0)
20	Hooke's law	
20	N/II	Force opposing motion which is caused
	What is friction?	by the interaction of surfaces moving over one
24	What appear fright ===?	another Contact between moving surfaces
21	What causes friction?	Contact between moving surfaces
22	Give a use of friction	Brakes on a car, walking
23	Give an example of where friction	Slipping (if there is not enough), slowing objects down
24	causes problems How can friction be reduced?	Lubrication
25	What is a fluid?	
26	What is a drag force?	A liquid or gas The resistance force caused by the motion through a fluid.
27	Give an example of a drag force	Air resistance, water resistance
28	How do drag forces slow objects	Particles from the fluid collide with the moving object
20	down?	providing a resisting force
29	How can drag forces be reduced?	Making an object more streamlined
30	can arag forces be reduced.	Single force which can replace
	What is a resultant force?	all the forces acting on an object and have the
	The state of the s	same effect.
31	Describe what happens if the forces	The object will remain stationary or will continue to move at
	acting on an object are balanced	a constant speed
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