Balanced & Unbalanced Forces Notes	S Name	Date
1. What is a force?		
2. Forces havea	and are expressed in	·
3. What is friction?		
4. Why does friction occur?		
5. Friction depends on what two factors?		
6. Identify surfaces that have more friction.		
7. Identify surfaces that have less friction.		
8. Identify examples of friction being helpful.		
9. Identify examples of friction being harmful.		
10. Why is air resistance considered a form of	friction?	
11. What factors influence air resistance?		
12. What is gravity?		
13. How does the Earth's gravity influence the	movement of objects?	
14. When two forces acting on an object are		,

we say the forces are ______.

14. Balanced forces _____

15. If forces are unbalanced, objects can ______

16. The diagram to the right illustrates _____ forces. -



17. Draw arrows and identify the balanced forces in the two illustrations below.





Balanced & Unbalanced Forces Notes

Name ______ Date _____

18. The diagram to the right illustrates _____ forces.



19. _____ cause a change in motion by changing the object's

____.

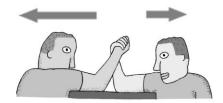
20. Draw arrows and identify the unbalanced forces in the illustrations below.



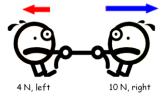




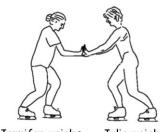
21. Identify which arm wrestler will win and which direction will the arms move. Why?



22. In which direction will the rope move? Why?



23. Look at the diagram to the right. Both women are wearing ice skates on an ice rink. If both women push off from one another, which woman will most likely move the furthest? Why?



Jennifer weighs 175 pounds

Julie weighs 130 pounds

Balanced & Unbalanced Forces Notes	Name	Date
24. What is inertia?		
25. An object at rest will		
26. An object in motion will		·
27. Mass is a measure of	·	
28. An object that has a small mass has		
29. Changing the motion of an object that has a small motion of an object that has a		than changing the
30. Which would require more force to move a bowlin	g ball or a tennis	ball? Why?

31. Explain the relationship between friction and the Law of Inertia.