Meden School Curriculum Planning								
Subject	A Level	Year Group	13 (part 4)	Sequence No.	11	Topic	Fluid Mechanics	

Retrieval	Core Knowledge	Student Thinking
What do teachers need to retrieve from students before they start teaching new content ?	What specific ambitious knowledge do teachers need to teach students in this sequence of learning?	What real life examples can be applied to this sequence of learning to development of our students thinking, encouraging them to see the inequalities around them and 'do something about them!'
students own knowledge and understanding of sport - students prior sporting experience, through playing or spectating or teaching, may have developed some level of knowledge in aspects of topics covered in this unit. KS4 Curriculum - Students will have some understanding of biomechanics from Science lessons KS3 Curriculum - Regularly performed a wide range of sports and will have knowledge of the individual skills needed for those sports. They will be able to identify them and will have understanding on how they are performed Boys and Girls all do the same sports on the curriculum to challenge stereotypes and raise awareness of opportunities for	Students will develop their knowledge and understanding of fluid mechanics and the factors that impact the magnitude of air resistance (on land) or drag (in water) on a body or object. • velocity • mass • frontal cross-sectional area • streamlining and shape • surface characteristics Students will apply each factor to a range of sporting examples and compare and contrast how these differ from one sport to the next.	Each week, a key theme will run through all PE lessons linked to real life examples. These will be linked to the particular learning outcome the students are on at the time and will be consistent across the department. The aim will be for students to develop their thinking, recognise the inequalities within sport (linked to the topic) and do something about them. In the 'teaching' lessons, students will be provided with a starter to challenge stereotypes in sport and then an activity linked to heading being covered where they can 'do something about them.' 1. Physical Activity Government Guidelines and Recommendations - students should have 60 minutes of moderate to high intensity exercise every day. Do they get this? How? 2. Barriers to Participation for Children and Teenagers 3. Solutions to the Barriers 4. Current Issues in Sport/Sport in the News - Linked to the impact of PE on Mental, Physical or Social Health 5. Physical Benefits of Sport and PE on the Body 6. Social Benefits of Sport and PE on the Body 7. ME in PE – Couch to 5km and Meden Park Run Challenge – Students are introduced to two free activities that they can get involved in. Designed to

them to get involved e.g. Mansfield Rugby Club for Girls

Extra Curricular/Clubs

- Students will have their own knowledge of the sports they regularly participate within and will be able to relate to these within their work
- All students will be given a breadth of extracurricular opportunities to allow them to perform further in the key sports discussed in this topic
- Students will have viewed sports that will be discussed and may understand how the body performs it
- Ideally, students will compete in sport outside of school

- improve physical, social and mental health within PF
- **8.** Popularity of Sport in the UK what are the current trends for the most popular sport in the UK. Why are they the most popular sports?
- **9. Emerging/Growing Sports in the UK** which sports are new to the UK? How can we make them more popular?
- **10.** National Governing Bodies What is their role within a sport? What are the key NGB's for each sport?
- **11. Major Sporting Events** What are they? When and where do they occur?
- 12. Olympic Creed and Olympic Values
- **13.** Current Issues in Sport/Sport in the News Linked to new sports, growing sports or a major sporting event occurring
- 14. ME in PE Couch to 5km and Meden Park Run Challenge – Students are introduced to two free activities that they can get involved in. Designed to improve physical, social and mental health within PE
- 15. Sporting Values Excellence Linked to Role Models and demonstrating excellence within a sport
- 16. Sporting Values Tolerance and Respect
- 17. Sporting Values Fair play
- 18. Sporting Values Teamwork and Inclusion
- 19. Sporting Values Citizenship
- 20. ME in PE Couch to 5km and Meden Park Run Challenge – Students are introduced to two free activities that they can get involved in. Designed to improve physical, social and mental health within PE
- **21. Performance Enhancing Drugs** What are they and why are they taken?

22. Gamesmanship and Deviance
22. Gamesmanship and Deviance 23. Sportsmanship and Success of Teams
24. Current Issues in Sport/ Sport in the News – linked
to examples of athletes demonstrating
sportsmanship, gamesmanship or taking
performance enhancing drugs
25. ME in PE – Couch to 5km and Meden Park Run
Challenge – Students are introduced to two free
activities that they can get involved in. Designed to
improve physical, social and mental health within
PE
26. Money in Sport – Wage disparity between certain
sports and genders. Amateur vs professional sport
27. Technology in Sport – How has it advanced?
Advantages and Disadvantages
28. Gender in Sport – challenging stereotypes in sports
as the player, official or manager
29. Paralympics and Disabled Sport – examples of
sports and accessibility
30. Race and Equality in Sport – examples of
campaigns within sports – Kick it out campaign and
RESPECT
31. LGBTQ - Pride Sport – their role in challenging
LGBTQ phobia in sport
32. ME in PE – Couch to 5km and Meden Park Run
Challenge – Students are introduced to two free
activities that they can get involved in. Designed to
improve physical, social and mental health within
PE
33. Diet and Nutrition
34. Skeletal and Muscular System
35. Cardiovascular System
36. Respiratory System
37. Assessing Risk in Sport
38. Sporting Injuries

 39. Current Issues in Sport/ Sporting News – linked to injuries, new science, diet, nutrition etc 40. ME in PE – Couch to 5km and Meden Park Run Challenge – Students are introduced to two free activities that they can get involved in. Designed to improve physical, social and mental health within PE
Students MUST reference four different sporting examples within each heading and will be penalised for sticking to one sport throughout. Teachers will guide students using a model example of a sport they are familiar with before exploring different real-life examples.