

**NB1140: Physics 1A - Classical mechanics and Thermodynamics**  
**Mastering Physics problems (problems from the textbook)**  
Chapters 10 - 19 (excluding chapter 15 on fluids) (3rd edition of the textbook)

The following problems in the 3rd edition of your textbook (Essential University Physics, Vol. 1 by R. Wolfson) appear as Mastering Physics problems. You are responsible for solving at least 50% of these problems **before** the final exam on 1 February 2017. About 1/3 of the problems on the final exam will be identical or similar to the problems below.

**List of problems (in the "Exercises and Problems" section at the end of each chapter):**

**Chapter 10:** 48, 50, 51, 56, 57, 61, 62, 64, 65, 68, 70, 72, 75, 76, 78

**Chapter 11:** 36, 37, 40, 42, 48, 53, 54, 57, 58, 59, 60, 62

**Chapter 12:** 24, 26, 27, 28, 30, 31, 34, 36, 40, 44, 47, 48, 52, 56, 58

**Chapter 13:** 37, 40, 43, 50, 59, 78

**Chapter 14:** 16, 22, 24, 46, 49, 53, 55, 76

**Chapter 16:** 53, 60, 68, 76, 80

**Chapter 17:** 37, 53, 63, 66, 71, 76

**Chapter 18:** 20, 26, 39, 40, 50, 51, 62

**Chapter 19:** 26, 42, 45, 57, 61, 63