Subjects for SemAlg 2018 — SECOND PART Combinatorial Game Theory

The two main references still are:

SIEGEL: A.N. Siegel, Combinatorial Game Theory, AMS, 2013.

WINNINGWAYS: E.R. Berlekamp, J.H. Conway and R.K. Guy, Winning Ways for your Mathematical Plays, 1982/2001. (Note that there are two editions: the first has two volumes, the second has four volumes. Page numbers below refer to the second edition, and somewhat differ from those of the first edition. In all cases: Volume 1.)

And some subjects (in no particular order):

1. Uptimals, SIEGEL, pp. 93–96.

2. Temperature, SIEGEL, pp. 101–104.

3. Amazons, SIEGEL, pp. 119–120. (many prerequisites!)

4. Atomic weight, SIEGEL, pp. 136–140.

5. Clobber, SIEGEL, pp. 146–148. (uses atomic weight!)

6. Structure of $\mathbb{G}$, SIEGEL, pp. 153–157.

7. Wythoff, SIEGEL, pp. 197–204 (selection).

8. Loopy games, SIEGEL, pp. 207–212 and 279–... (two or more presentations?).

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9. Domineering, WINNINGWAYS, pp. 119–126 and 138–142.

10. Toads and frogs, WINNINGWAYS, pp. 12–13, 63–65, 70, 75–76 and 127–137.

11. Redwood furniture, WINNINGWAYS, pp. 211–214.

12. ...