

Thanksgiving Study Assignment - 2025

For ALL the EVENTS you are expected to read the portion of the rules highlighted in the assignment and RESEARCH, ADD to binders/cheatsheets/journal, EXPLAIN new topics, and provide pictures, diagrams, tables to enhance your binders and/or cheatsheets. Find video link (if applicable) to help you understand the topic.

1. Anatomy

- a. Integumentary: ii, iii, vi,
- b. Skeletal: iii, v, vi, x,
- c. Muscular: iii, iv, x,

Provide a diagram with the 2025 National Major Skeletal Muscle List

2. Codebusters - for each cypher you are going to write one question to solve plus the solution:

- a. Section e: ii., v., viii., ix., x., xi.,
- b. Section f: iii., iv., v.,

3. Crime Busters - find two videos about blood spatter and

- a. Section c: iii
- b. Section f: ii, iii, iv, v

4. Disease Detective

- a. Section b: i (3),
- b. Section b: i (5) - make flashcards for basic epidemiological and public health terms - reference CDC glossary (study)
- c. Section b: ii (2)

5. Dynamic Planet - glaciers

- a. Section a: iii,
- b. Section c: ii
- c. Section h: i, ii, iii, iv,

6. Ecology -

- a. Part 1: i general principles of ecology
- b. Part 2: ii understanding the basic concepts of biodiversity
- c. Part 3: ii the pros and con of using alternative energy and its effect on the environment

7. Entomology - complete the binder - National Entomology list 2025

- a. Section b: practice identifying insect with specimen images
- b. Section c: internal and external anatomy
- c. Section e: IPM learn what it is and where/how it is used

8. Experimental Design - design an experiment with a topic from

- a. Physics
- b. Chemistry - make sure to include all the parts of the Exp. D. package

9. Fossils -

- a. Section e: iii, iv,
- b. Section e: vii (1), (2), (3), and (4)
- c. Section e: xv, xvi, xvii

10. **Helicopter** - build a helicopter and be ready to test on 12/2 and 12/3
11. **Meteorology** - climate
 - a. Section c: ii (2), (3)
 - b. Section c: iv (10 and (2)
 - c. Section c: viii (1) and (2)
12. **Metric Mastery** - find 10 objects around your house that are standard for everyone, such as glue stick, paper towel roll, Rubik's Cube, fork, AAA battery, etc. estimate their mass, and length and then check what is their actual mass and length
 - a. Memorize the metric prefixes - all can be found on Wiki
13. **Microbe Mission** -
 - a. Section a: i (2)
 - b. Section a: ii (1), (4), (5)
 - c. Section a: iii (3), iv (2)
 - d. Section b: i all
14. **Optics** -
 - a. Section d: i (1), (2), (3), (4)
 - b. Section c: v. (1), (2), (3), (4)
15. **Potions and Poisons** -
 - a. Part 1 - ionic and covalent bond, difference between solution and compound, differences between physical and chemical change, balancing chem. reactions, understand reading maps and potential oil spills, effect and chemistry of common household toxins
 - b. Part 1 - i, ii, iii
16. **Reach For The Stars** -
 - a. Section a: all constellations
 - b. Section b: ii, iv
17. **Road Scholar** -
 - a. Section a: i, ii, iii, iv, vii, ix, x,
 - b. Section a: xiv, xiii
 - c. Section d: iii, iv, v,
18. **Tower** - build one, ready to record 12/2 or 12/4
19. **Wind Power** - sketch a design of the blade
 - a. Section c: i, ii, iii, iv, v, vi
20. **WIDI** - construct 2 design and provide the instructions to your partner, ask your parents or siblings to build a design for you. Exchange the written instructions with your partner