

Unit 11: Electric Circuits

- You should be spending at least **60 mins** a day on Physics Curriculum.
- **Completing** the note taking guide is required and **printing** the guide is highly recommended.
- Seeking help if you are not passing your post assessments and/or practices is essential.
- If you are behind you MUST spend additional time on Physics to catch up and meet due dates!
- If you cannot meet a due date, extensions must be requested and approval received **in advance**.
- To keep on track Unit 11 should be completed by March 12.

Complete Unit 11 Pretest

Unit 11 Vocabulary

- Unit 11 Vocabulary is optional

Series Circuits Notes

- Complete note taking guide

Series Circuits Notes - Post Assessment

- take assessment after watching video notes and completing note taking guide
- must score a 80% or redo
- seek remediation if PA is not passed on 3rd attempt
- Pass by 2/25, end of class period

Series Circuits Practice

- will open up after scoring 80% on Series Circuits Notes post assessment
- must score a 74% or redo
- Pass both by 2/26, end of day

PHET Circuit Simulation Lab

- Use the PHET simulation *Circuits Construction Kit* to build series circuit models
- will open up after scoring 74% on Series Circuits Practice
- Answer the 16 follow up questions after completing the Simulation. Submit answers to the questions through Blackboard by 2/27, end of class period
- Lab report is NOT required for this lab.
- There are NO corrections accepted on this lab.

Parallel Circuits Notes

- Complete note taking guide

Parallel Circuits Notes - Post Assessment

- take assessment after watching video notes and completing note taking guide
- must score a 80% or redo
- seek remediation if PA is not passed on 3rd attempt
- Pass by 2/28, end of class period

Parallel Circuits Practice

- will open up after scoring 80% on Parallel Circuits Notes post assessment
- must score a 74% or redo
- Pass by 2/29, end of day

Christmas Lights Lab

- Build series and parallel circuits
- will open up after scoring 74% on Parallel Circuits Practice
- Hand In Paper with completed circuits (lights taped to paper with labels and data with units)

Goals:

1. Use mathematics and computational thinking to determine the current, voltage difference or resistance when one or more of the variables is changed.
2. Use Ohm's Law to determine the relationship between current, voltage difference and resistance of both series circuits and parallel circuits.
3. Distinguish the difference between series circuits and parallel circuits.
4. Build both series and parallel circuits using small lamps. Model the use of appropriate equipment to measure amps and voltage of both circuits.

- Answer the 10 follow up questions after completing the lab. Submit answers to the questions through Blackboard for all by 3/6, end of class period
- Lab report is NOT required for this lab.
- There are NO corrections accepted on this lab.

Combined Circuits Notes

- Complete note taking guide

Combined Circuits Notes - Post Assessment

- take assessment after watching video notes and completing note taking guide
- must score a 80% or redo
- seek remediation if PA is not passed on 3rd attempt
- Pass by 3/7, end of class period

Combined Circuits Practice

- will open up after scoring 80% on Series Circuits Notes post assessment
- must score a 74% or redo
- Pass both by 3/8, end of day

BONUS Optional Challenge Circuits

- will open up after scoring 75% on Combined Circuits Practice
- must be completed in the classroom by 3/12

Optional Crib Sheet for Unit 11 Test

- When all practices are completed until a 74% or better is earned, you may use a "teacher guided" crib sheet.
- Complete crib sheet on 3/11 (or at least 1 day before test)
- Completed crib sheet must be given to teacher 1 day prior to the test and returned after the test.

Redo Practices for Review

Submit Unit 11 Warm Ups on March 12

Unit 11 Test

- Test will open up after passing all Post Assessments and Practices and completing all Labs for this unit.
- Test should be taken by 3/12

Retake Unit 11 Test

- If you score below a 65% you must watch the video notes:
 - Complete note-taking guides for the unit and all practices in the unit again
 - Seek remediation as needed
 - Retake the Unit 9 Test and pass with a 65% or higher
 - **COMPLETE the RETAKE as soon as possible to avoid falling behind in the next unit**