

## **Unit 12: Magnets**

- You should be spending at least **60 minutes** 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 28.

### Goals:

1. I can use vectors to represent magnetic fields and magnetic field lines.
2. I can use simulations to model magnetic fields and magnetic forces.
3. I can use mathematics and computational thinking to determine the magnetic force, current, length of the wire or magnetic field strength when one or more of the variables is changed.
4. I can use the Right Hand Rules to determine the direction of current, direction of magnetic field or direction of magnetic force.

### **Complete Unit 12 Pretest**

#### **Unit 12 Vocabulary**

- Unit 12 Vocabulary is optional

### **Magnetic Force & Magnetic Fields Notes**

- Complete note taking guide

#### **Magnetic Force & Fields 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 3<sup>rd</sup> attempt
- Pass by 3/18, end of class period

#### **Magnetic Force & Fields Practice**

- will open up after scoring 80% on Magnetic Force & Fields Notes post assessment
- must score a 65% or redo
- Pass by 3/18, end of class period

### **Magnets & Electric Current (Electromagnets) Notes**

- Complete note taking guide

#### **Magnets & Electric Current 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 3<sup>rd</sup> attempt
- Pass by 3/19, end of class period

#### **Magnets & Electric Current (Electromagnets) Practice**

- will open up after scoring 80% on Magnets & Electric Current Notes post assessment
- must score a 65% or redo
- Pass by 3/20, end of day

### **PHET Electromagnet Simulation Lab**

- Use the PHET simulation *Magnets and Electromagnets* to build the electromagnet models
- Answer the follow up questions after completing the Simulation. Submit answers to the questions through Blackboard by 3/21, end of day
- Lab report is NOT required for this lab.
- There are NO corrections accepted on this lab.

### **Magnetic Field Right Hand Rules Notes**

- Complete note taking guide

#### **Right Hand Rules 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 3<sup>rd</sup> attempt
- Pass by 3/22, end of class period

#### **Right Hand Rules Practice**

- will open up after scoring 80% on Magnetic Field Right Hand Rules Notes post assessment
- must score a 65% or redo
- Pass both by 3/25, end of day

### **Magnetics in Technology**

- Read this information to discover the importance of magnets in technological advances in industry, transportation, safety, health and medicine.
- After reading, complete the questions via Blackboard.
- Questions due March 26, end of day

### **Optional Crib Sheet for Unit 12 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 3/27 (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 12 Warm Ups on March 28**

### **Unit 12 Test**

- Test will open up after passing all Post Assessments and Practices and completing all Labs for this unit.
- Test should be taken by 3/28

### **Retake Unit 12 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 12 Test and pass with a 65% or higher
  - **COMPLETE the RETAKE as soon as possible to avoid falling behind in the next unit**