

USING exe FOR TEACHING PHYSICS

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ABSTRACT

To work with e –learning tools is a nice way of interaction with the students especially in class 12th.

I am putting Assignments on my blog & my blog address is www.mkphysicslearning.blogspot.com.

Using tools such as MINDMAPS, CAM STUDIO, MP3 players, IMAGE MAGNIFIER etc, the effectiveness of lessons increases many folds.

KEYWORDS

- Rules
- Magnetic Field due to Solenoid and toroid
- Ampere circuital law
- Current Loop
- Biot and Savart's law
- Coulomb's LAW
- Electric lines of force
- Field on the axial and equatorial line
- Torque on a dipole

MAIN PAGE

I have made an exe lesson on two chapters **MOVING CHARGES & MAGNETIC FIELD & ELECTROSTATICS**. In first lesson, while explaining various rules I recorded my voice using mp3player. While showing these rules in my exe lesson using **RIGHT HAND THUMB RULE, FLEMING'S LEFT HAND RULE** the students were all engrossed in watching the lesson. The magnetic field due to a **SOLENOID, a TOROID** is well understood by looking at the direction of entry & exit of current. The **TORQUE** on a **RECTANGULAR COIL & ITS ORIENTATION** in magnetic field required a lot of visualization & is depicted in the lesson nicely. There is a provision of writing lesson using **OBJECTIVES, PREKNOWLEDGE** etc in the exe lesson. After a particular topic is over I have used **CLOZE ACTIVITY TO EVALUATE** the students. Any image or a part of image can

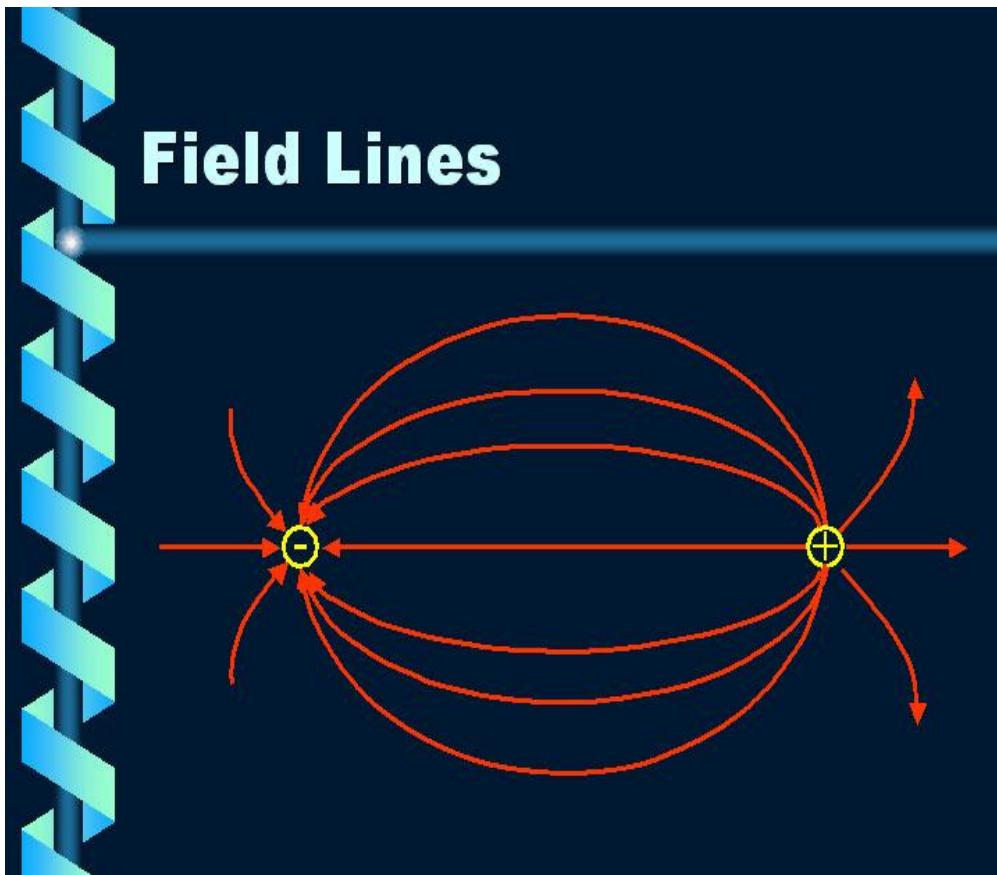
be magnified using image magnifier. Using EMBEDDED MEDIA one can use cam studio and highlight the part of the lesson so that there is SYNCHRONIZATION between the image on screen & whatever the teacher is talking about in the class. For writing down various formulae I have used Latex to math for exe. Insert link can be used to link the lesson with any of the wiki article I have created MINDMAPS for RECAPITULATION OF THE LESSON. This tool is maximum made use of by the students of class12 for remembering the knowledge based questions. Using unfreeze tool I have created animated pictures.

CLOZE ACTIVITY

Read the paragraph below and fill in the missing words.

In charging by there is no between the body being charged & body which is charging. If there is a single charge the field lines may end at infinity. The dipole moment is a the field on equatorial line. The dipole experiences a torque in uniform electric field but the force experienced is .

To draw the field lines- A DIPOLE



REFERENCES

- NCERT CLASS 12th