

# Using a Virtual Learning Environment for Formative Assessment in an Optometry Program

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## Formative Assessment FA:

- ✓ Improves student understanding
- ✓ Provides feedback for both teachers and students
- ✓ Allows teachers to modify instruction
- ✓ Enables students to monitor their own progress
- ✓ Assessment FOR learning vs. assessment OF learning
- ✓ Better retention of material

## Virtual Learning Environment:

- 🖥️ Web based learning platform e.g. Moodle
- 🖥️ Enables virtual teacher student interaction
- 🖥️ Ideal for formative assessment
- 🖥️ Very flexible
- 🖥️ Convenient for large groups of students
- 🖥️ Can safeguard against cheating

## Hadassah College Optometry Department: 3 models of FA for 3 different courses

### Visual Optics:

- 📄 10 tasks on 10 topics = 10% of final grade
- 📄 Task: write a visual optics problem + worked answer
- 📄 Submitted online via Moodle
- 📄 Grades and feedback given by teacher via Moodle
- 📄 Student can resubmit after corrections
- 📄 Task is time sensitive
- 📄 Students were asked to be creative
- 📄 Advantages:
  - 📄 very little preparation required
  - 📄 individual feedback for students
  - 📄 students demonstrated enthusiasm for what can be a “dry” subject
  - 📄 grading was sometimes entertaining!
- 📄 Disadvantages: grading is time consuming

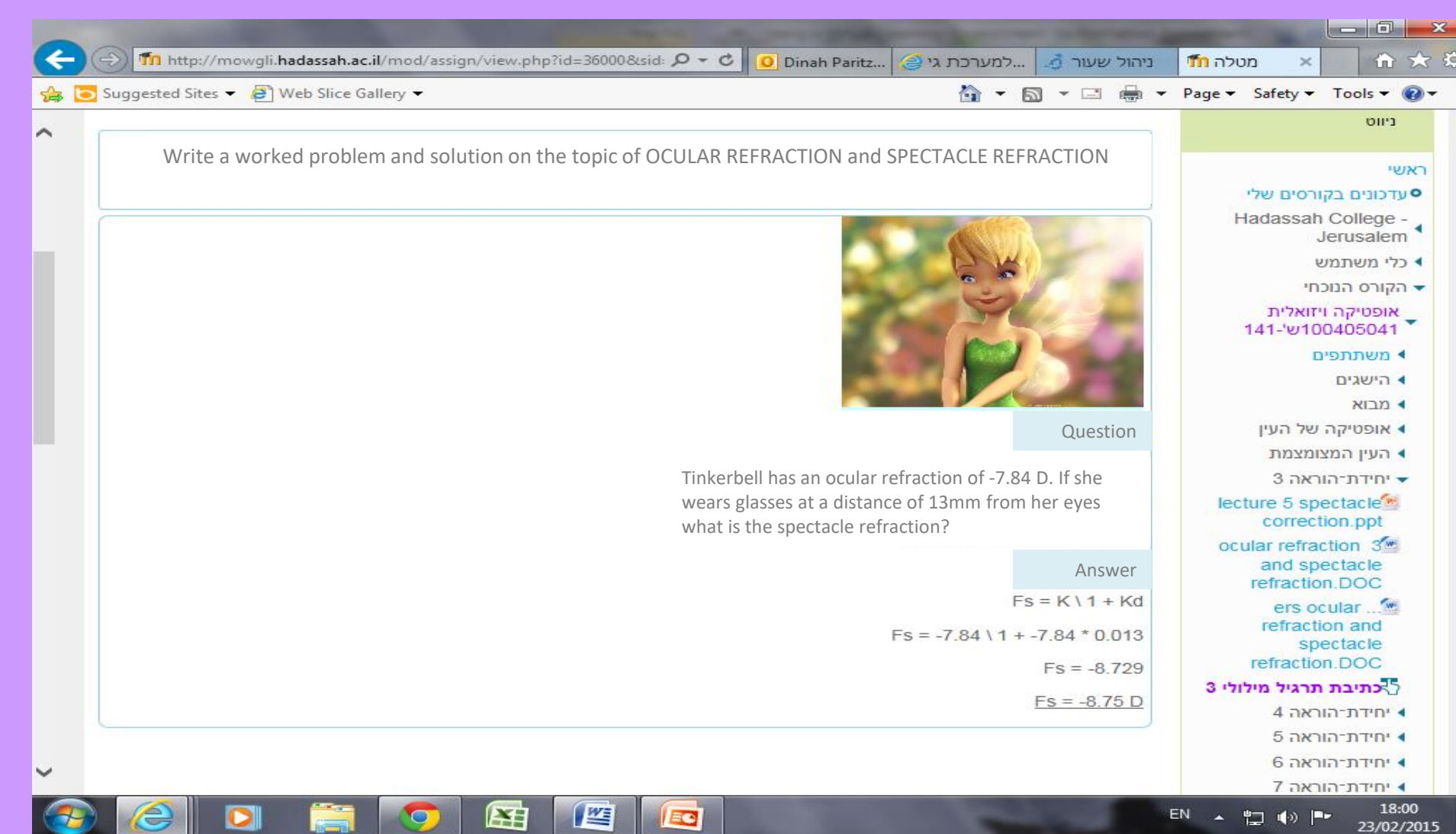
### Anatomy:

- 📄 Series of quizzes prepared in advance:
  - 📄 MCQs
  - 📄 Matching words to diagrams
  - 📄 Ordering
- 📄 Automatic grading by Moodle
- 📄 Advantages:
  - 📄 Requires students to review material throughout semester
  - 📄 No work required by teacher during semester
  - 📄 Interesting for students
- 📄 Disadvantages:
  - 📄 Preparation is time consuming
  - 📄 Limited teacher/student interaction

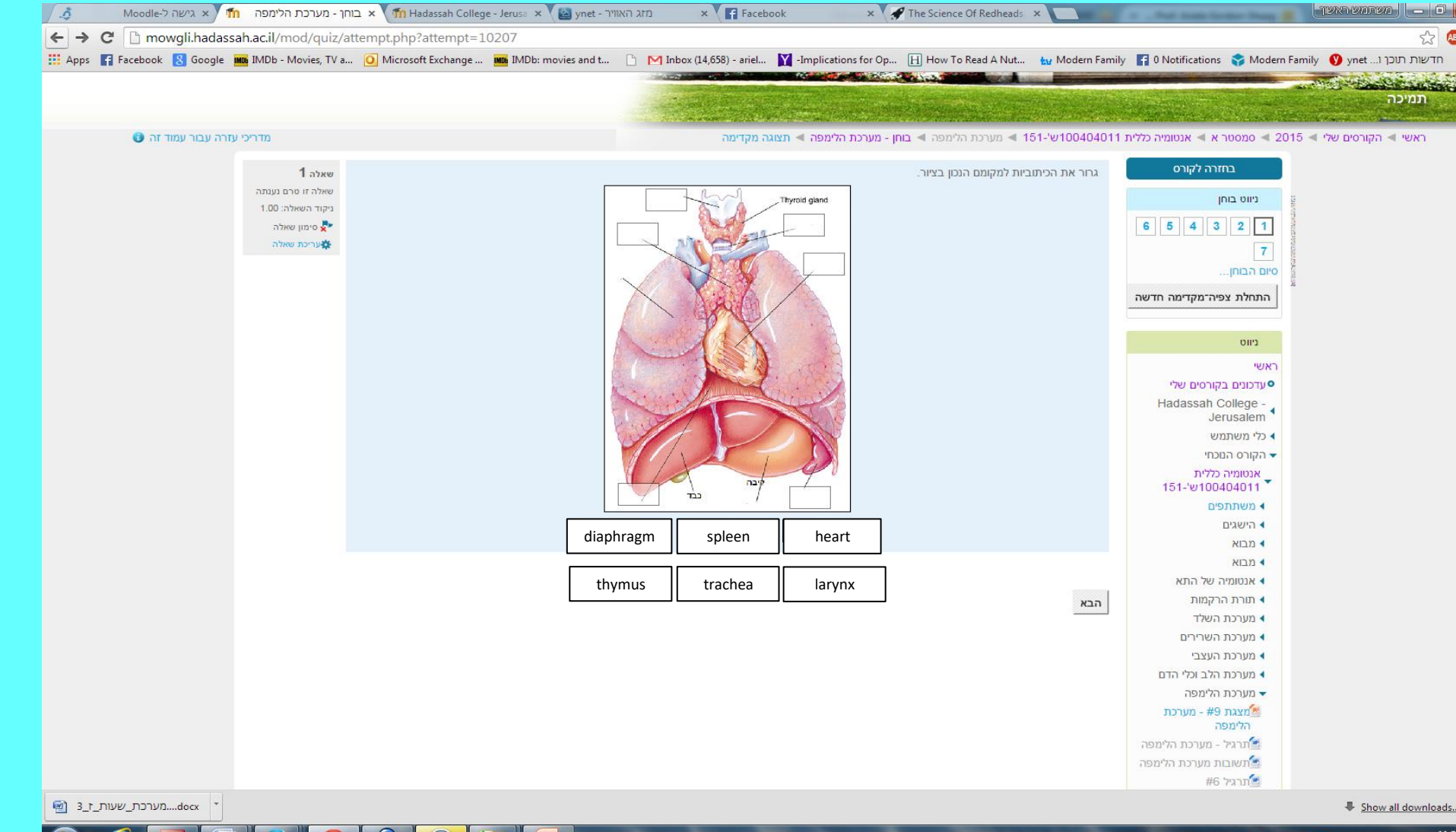
### Binocular Vision Laboratory:

- 📄 Students formed groups of 3 via Moodle
- 📄 Each group chose binocular test to research and prepare PPT presentations
- 📄 Students uploaded presentations to Moodle for all students to see
- 📄 10% of final grade
- 📄 Advantages:
  - 📄 efficient way to divide into groups
  - 📄 effective way for students to pick topic they are interested in
  - 📄 independent and interesting research projects
- 📄 Disadvantages: technical issues with uploading heavy programs (movie clips)

### Example:



### Example:



### Example:

