2011 Singapore Junior Physics Olympiad (SJPO)

Preparation Guidelines and Resources

Name: _____ ( ) Class: ____ Date: _____

A. Schedule

GENERAL ROUND

- Date: Wednesday 3 August 2011
- Time: 1430 – 1600 h, Report by 1415 h
- Venue: **LT 2 in NYGH**
- Format: 50 MCQ questions
- Cost: $ 8.00 (deduction through Edusave or GIRO, except for those attending HCI Physics Olympiad training who would be sponsored by school)

SPECIAL ROUND (selection based on General Round performance)

- Date: Wednesday 27 August 2011
- Time: 0900 – 1230 h
- Venue: in NUS (to be confirmed)
- Format: 8 to 12 structured questions

B. List of handouts (correct as of 25 May 2011)

Note: *Do not collect the notes (**part A and B**) you if have a copy from last year (Sec 3).*

1. Physics notes (Part A)

- Topics: Kinematics, dynamics, energy, momentum, materials science, circular motion, gravitation, simple harmonic motion (SHM), waves

2. Physics notes (Part B)

- Topics: Electricity, electrostatic and gravitational fields, thermal physics, thermodynamics, wave-particle duality, energy levels, atomic and nuclear physics

3. 2009 SJPO Paper (General Round) for practice [*attached*]

C. Online resources

Check email regularly for updates.

Also access the wiki at URL: **microurl.info/sjpo**

- SJPO syllabus, schedule
- 2008, 2009 & 2010 SJPO sample questions, answers
- Other resources and updates

D. Recommended NYGH Library reference books for self-study

1. **University Physics with Modern Physics** by Young & Freedman, 12th Edition.
2. **Conceptual Physics** by Paul G. Hewitt, 11th International Ed.
3. Limited copies of these 2 books are available at
   - the NYGH Library counter for long-term loan till end August.
   - at Redspot section for reading & can be borrowed after 3 pm on Friday and to be returned before 11am on the following Monday. Please return these books promptly by the due date.

Prepared by Mr Ang JL
ang_ joo_liak@nygh.edu.sg