Welcome To Dynamic Planet – Glaciers (B&C)

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Dynamic Planet - Glaciers

1. Description: Participants will demonstrate an understanding of the processes involving the cryosphere of the Earth, with an emphasis on glaciers.

Topic is actually cryosphere, not just glaciers
Same rules for B & C
Paragraph 2 lists what the students can bring
    One three-ring binder with anything they can carry plus two Class II calculators
Paragraph 3 is the detailed topic list
NOTE: All SO events have moved example questions and activities to the event pages

Basic Skills - 1

Recognize the vocabulary and definitions
Name glacial geographic features
Glacial processes and their impacts on the surrounding terrain
Quantifiable processes and the associated equations
History
Associated data and interpretation
C should expect more data and equations than B
Be specific - Answers w/units, exact names if required (read the question)

Basic Tools

Top three tools for successful competitors:

Notebook

Notebook

Did I mention a notebook?

Like most SO study/test events, the list of things to learn cannot all be memorized

Coaching - 1

Two major requirements
- Help construct a usable notebook
- Provide resources to research

Notebooks are a balancing act and iterative

Remember that the notebook has to be usable under test pressure for 50 minutes
- Emphasize being able to find the data (tabs)
- Emphasize labeled graphics
- Emphasize data that is hard to memorize

From experience, somewhere in the 20-40 page range for B

Slightly larger for C

A reasonably sized glossary is a big help

Coaching - 2

Resources

Wikipedia is a good place to start, esp. for basic vocabulary and concepts

- Detailed topic pages for general ideas are good for a deeper understanding

National Snow and Ice Data Center - https://nsidc.org/home

- Has good educational materials and LOTS of data

NSO Event page is weak https://www.soinc.org/dynamic-planet-b (C page has same data)

https://scioly.org Check out the wiki and the test exchange

- 2019 appears to be most recent Glaciers

Practice tests are a big help both for experience and notebook updating

Coaching - 3

Coaching tips

- If you have more than one kid, have them research different topics and save pages to the common notebook
- B kids require more directed coaching than C kids
- Google images or equivalent can be helpful for identification topics

Coaching - 4

Tournament Day

- **Students need to know how and what questions to ask of the event supervisor**
- Don’t get bogged down on one question
- Prioritize the questions, esp. difficult questions or high value
- Debrief
  - Esp. things they hadn’t seen before

Running a DP Event

Plan ahead!
The primary goal is a ranking of competitors that accurately reflects their knowledge
In depth or pretty easy, what topics to cover
Start selecting questions and your graphics
Be sure you are following the rules
Plan out your tie breakers – you will need them
Build separate answer key
At tournament, you WILL need help to run and score (esp.)
Prep your help if possible – amateurs willing but dangerous
Check, recheck and rerecheck!!! You WILL make mistakes!!!
Virtual tests in scilympiad or Google take added skills

Some General Notes

SO is as much about the preparation as the competition
Moderation in all things
Students in control as much as possible
Coaches are there to allow students to learn
    Coaches do provide resources
A little fun now and then is not fatal
It's about the science; this is cool stuff
One of my favorite science terms: pingo

Only The Beginning

QUESTIONS, COMMENTS, SNIDE REMARKS?