



George  
London.

April 2. 1871.

Dear Papa.

The Mineralogy Examination  
Came off as announced last Friday.  
Of course I cannot tell you how I have  
done, nor will the results be known  
till the End of June next.

On the whole I think I have managed  
as well as I expected to do, but not  
nearly so well as I might have done  
had I not felt sick & indisposed  
for study for about ten days before,  
just at the time I should have been  
working hardest. Fortunately I felt  
all right again a day or two before the  
examination, & am now also feeling  
quite well.

Smyth gave us a very good paper  
I think, & one not requiring a too  
extensive memory for mere figures.  
As I have nothing particular to write about  
I will give you the questions which you  
need not read unless you have time.

Morning paper (10.30 to 1.50)

1. Give definitions of the rhomb, pyramid prism  
& rhombohedron.
2. Define the physical & chemical characters  
of the minerals containing Tungsten as an  
essential constituent.
3. What are the various states of aggregation  
which are noticeable in micro-crystalline  
mineral substances?
4. State the colour, hardness & percentage in  
Copper of Cuprite, Malachite, Chrysocolla, Azurite,  
Copper glance, & Copper Pyrites.
5. Give a full description of Apatite, its  
localities & modes of occurrence & its application  
in Commerce.
6. Determine the minerals in 10 specimens placed  
before you.

(Some of these were, Chrysocolla, Cerussite, spathe Iron,  
Specular Iron, Siderite, Scolicite, Blende, Copper pyrites &c  
& mixed with various other minerals as vein-stones

Afternoon Paper (2.30 to 5.30.)

7. What are the leading features of the crystallization of Quartz, & what of the tetartohedral planes?
8. Enumerate the points of resemblance & difference between Quartz & Horublenite, & some of the important varieties in each group.
9. Give the characteristic form, the colour, & general composition of the minerals Pyromorphite, Chrysolite, Palaemonite, Tetrahedrite, Pycnite, & Zirconite, with the meaning of their names.
10. Make free hand drawings of three different forms of Calcite, in which none of the same faces occur.
11. Describe 9 models of Crystals, naming some mineral which crystallizes in each of the forms.

I sent Messrs Taylor & Francis a post office order for 7<sup>l</sup>. 6 the amount of their bill & enclose the account receipted. I forgot to send it by last mail.

Believe me your affectionate son  
George Hudson

April 6. 71.

Please tell Mamma that I called on Col. Haultain on Monday last - I unfortunately found him out. I got my little parcel however, for which very many thanks. The Maple Sugar Confection is delicious & the "Year Book" will be very useful in case of reference.

Yours  
M.D.