

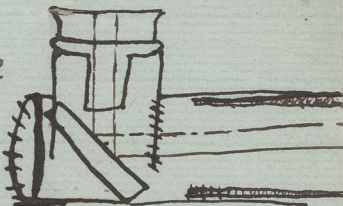
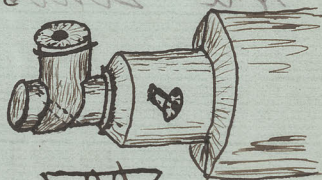
Mc Gill College, Sept 15/70

Dear George

I have succeeded in making a diagonal eyepiece for the large telescope.

I made two cardboard tubes of the required sizes, one to fit the outside of the tube of which the eye-piece is made, & the other to fit the eyepiece proper, that screws out of the eyepiece tube.

The great difficulty was to get the tubes short enough, so as to get the focus. As it is the tube that



(The scored out lines were made in a mistake)

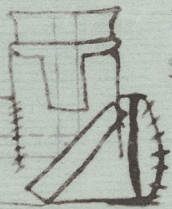
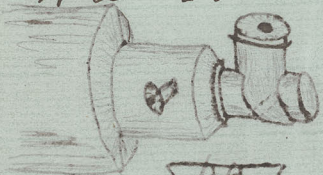
slides onto the eye-piece tube has only about $\frac{1}{2}$ an inch ~~to hold by~~ of overlap, & the eye-piece proper touches the mirror. The mirror is a plate glass one which I had cut for my Quadrant. There is no distortion. The advantages are ~~obvious~~ obvious. In the first place ^{one} you avoids breaking his neck when trying to look at a star in the zenith. Next the eye-piece

erects, on account of the reflection,

thirdly, it is unnecessary to use the diaphragm when looking at the sun, because the heat only acts

on the mirror

& hardly any is communicated to the lenses. The arrangement is quite steady, the only difficulty being that in looking at the



heavenly bodies it is hardly in focus; but I think I can do obviate that difficulty.

The examinations for the scholarships began yesterday; Greek in the fore noon & Latin in the aft. I did miserably in the Greek, (about a third of the ~~paper~~^{questions} was all I did) I only did about a third of the questions. I did better in the Latin however. Today we have no ex. Tomorrow we have "Bois's Grammar" that delightfull book that you used to like so much (!) And on Sat. we have Mathematics fore- & after-noon. There are eight of us going in for them; viz:- Taylor (late of High-School) Taylor (late of Normal School.) two Herveys (from Newfoundland) McLennan (from High School), myself & two other chaps.

of course & I have hardly any
chance against them, especially
as I did so badly in the
Greek; but there is no
-harm in trying.

China has gone today
to the Great Regatta
between St. John & the Tyne
crews. That is, between
England & America & the
race is for the champion-
ship of the World, or the
Universe!!!!

Hullo! here is Father
Chinique!

Well I must close now
as I have to do Bain's geo-
& Algebra.

Believe me that I don't
expect to get a scholarship
& also that I ever remain
your affectionate brother

William