

me benevolentissimus. 7. Quippe beate vivere inquit, id quod omnes beatis omnibus anteposimus, regibus cum bubulcis, pauperibus cum divitibus, commune est. 8. Erga ceteros benevolentissimus esse videbatur; sibi ipsum inimicissimum, fuisse puto. 9. Homo est ab omni ambitu suspicione alienissimus, sed vercor ut ab his iudiciis, hominibus, nequissimis absolvatur. 10. Regum esse proprium dicebat, iis qui optime de se meriti essent videre.

Exercise 49.

1. Aut exulandum ei ultro fuit, aut in acie pereundum, aut quidvis potius quam hoc faciendum. 2. Nonne eis quibus gratiam debemus agendæ gratiæ? 3. Imperandum fuit militibus ut a cæde desisterent nequem inermem trucidarent feminis certe puerisque, ne ægris dicam sauciisque, parcendum erat. 4. Quominus tuum ipsius caput periculis objecias non recuso, militum vero salutem in hoc tempore cavendum est. 5. Hoc tibi, homini prudentissimo, faciendum fuit, neque illud prætereundum. 6. Quum videret sibi aut pedem referendum esse, aut cum haud contemnendo hoste die postero configendum, statuit aciem instruere et statim pugnare. 7. Neque ei audiendi sunt qui amico, qui assentari nobis adularique nolit, irascendum esse dicunt. 8. Filio tuo homini insipienti persuaderi non potuit ut fateretur rem vel obliviscendam esse vel in oblivionem venire posse. 9. Omnibus aliquando moriendum erit, sed commune illud omnium fatum quando cuique quemadmodum obeundum sit, ne sapientissimus quidem hominum aut præsentire aut prædicere potest. 10. Videmini ad me cuncti in regiam domum dū ob causas convenisse; partim vestri purgandi causa, partim mei consulendi; occasione igitur utendum est, et rege præsentem oranda causa.

SCIENCE.

The following are some of the actions and reactions taking place in thunder-storms:—

1. There exist above the earth's surface strong currents of air moving inward toward

the central line or area of the thunder-storm. This is attested by balloon observations and by observations of clouds.

2. There arises from the sudden expansion of air entering the vortex of thunder-storms from beneath a reaction which produces a compression of the air near the earth's surface, and a rise of the barometer.

3. This compression causes the air near the earth's surface to tend outward in all directions from the centre of a thunder-storm; but the outflow in moving storms is only felt, or attains its greatest strength, on the front of the storm, where the direction of the outflow is combined with the progressive motion of the storm. In tornadoes the vortex usually reaches to the earth's surface, and there is no place for a vertical reaction; but where the vortex is some distance above the earth's surface, there is the same evidence of a straight outblowing wind moving in the direction of the tornado, as there is in a thunder-storm.

4. This rapidly outflowing current, by its dynamic action on the barometer or its environment, frequently or generally causes a depression of the barometer in the front of thunder-storms, where the outflow is most violent.—H. HELM CLAYTON, in *Science*.

IMPROVEMENT OF OUR CLIMATE.—Mr. John C. Goodridge, Jr., has suggested a project for modifying the climate of the Atlantic coast by closing the Strait of Belle Isle, and advances the theory that this scheme is feasible as a problem in physical geography capable of an engineering solution. He argues that it is shown by charts that the great body of the "cold wall" comes to us through that strait. Newfoundland deflects the remainder of the Arctic current to the south-east. Here, pressing against the Gulf Stream, it veers southward in the form of a loop, and finally, running under it, goes on toward the equator. That part of the Gulf Stream that passes our shores has a course directly north and a little west, is deflected slightly toward the east by the coasts of South and of North Carolina, and thence turns more to the north again, when