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| Icultural Goologs, Fa .2 |  |  |  |  |  |  |
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| No oluss of the commanity bave an equal intorest in Geology with farmera. No acioinde is so interasting to farnera as geolo- |  |  |  |  |  |  |
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| dono to aither: While the olemants of our |  |  |  | Hexay |  |  |
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| and both indisponasble, as at tho foandation of all agrioultural scionce. |  |  |  |  |  |  |
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| before bim two glans tumblers-the one contsining quirts, the other lime or azad and |  |  |  |  |  |  |
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| ehalk The namo of esech is of oontrat resaree or ang chther object in nature or art. |  |  |  |  |  |  |
| borse, or any ofter object in nature or a of nuristio acid. In the tumblor of lime the pupil observes sin action-in that of |  | ATrosigy AT Ha |  |  |  |  |
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| NUMBER TNO. |  | LIVERY AND EXCHANGE montrose, Pemn:a |  |  |  |  |
| mai, in Greak meana make. hence the Iiteral mataing of oxygen is $\alpha c i d$ maker. Com biod with aulpbuy it furms sulphario aocarboinioit aíid, \&es. Rospiration combas tion and fermentition are the three princi--pal poperations producing the combinations io acid |  |  |  |  |  |  |
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| produeas sulphstet; nitrio nitrates: earo plaster of Pariat ; ;olphates of iron, es; of sods; glanber ealts : of mapnesia, epsoti saltsy. The carbonate of ime besutiful erystals. Carbonstes of iron, coppen and lead aro ores of those metals. |  | k, Binding Business. |  |  |  |  |
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|  |  | New Hiliford Stove Depot. |  |  |  |  |
|  common oxygen and nytrogen. About baif a century since oxycen was fond by |  |  |  |  |  |  |
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| Sir Humpharey Dary to bo bo. in clement on rocks, of course of soils ss it was of the al salies bombined wil oxyeow wert foud |  |  |  |  |  |  |
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| by the eame great chomist, to bo metals veryIf hiecaliare in in their echarateter: |  | A ${ }^{\text {a }}$ | L |  |  |  |
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| If hisace eppears that oxygen is an element in air, earth and rater, existing abandantly in solid, liquid and zrial forms |  |  |  |  |  |  |
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| element in the material worla. ohangas in matter easential to buman ex bence. It is very |  |  |  |  |  |  |
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| tal air, as deither animal life nor any life can exist without ib. It is no less essential |  |  |  |  |  | : |
| to eombastion than to life; It also acts with great energy upon metals and othersolid substances. In this action it produ- |  |  | dighimen, whingom |  |  |  |
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| ?ees three very large and very impertant |  |  |  |  |  |  |
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| Irou rust is the oxyde of iran; the dross lead oxsdo of leazd; burat hime, the or Tie of fallolam; pare potast, the oxyde of |  | luable Books. |  | datat |  |  |
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| alles of fint, the oxyde of filctam. The mbinition of one part oxygen and four of |  |  |  |  |  |  |
| -itrogen constitutes the atmosphere; three rarts axygen and ane nying antis. Combined with otherinb. tances, it forms numeroas acids. Saltpetre is she nitrate of potash. The. large quintity of oxygen it receives from the nieario acid fits it for a material in gunpowder -gising to that powerful agent its priaci- |  |  |  |  | \% |  |
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| piece of cort or other like substance; ;on that another piece of paper or cotton mois- |  |  |  |  |  |  |
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