## THIL CDLUMBIA DNHOCRAT.

## have sworn apon the Altar of God, eterinal Lootility to every Gorm of Tyramy over the mind of Man⿻"-Themen Jefferonn

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## SA

## DIALOGUE

Betweena Teacher and his Pupil
NATURE OF LGGHi
8cenc- 2

## Holiday

Tutor-well my young friend you h
been to see the strolling Necromance ! William.-Yes Sir,we saw him perform reveral very arnusing exploits, but the whol pleasure of the jaunt has been destroyed
by an unfortunate quarrel beiveen George and James.

## nd James.

Futor,-A quarrel! how so? I thought you better taught. It
me hear the particulars.
Jaines.-I will teil you and when I have done, I presume yon will be surprised a the unprovoked wickedness of George. Ev en he does not pretend to say I did any harm to him.
George.- 1 admit he did no mischief mo and 1 did nothing to him.
James.-If he did no injury to me, then I must believe in witeh-craft, and you sir, have always told us that no such thing ex for on rational principles.
Tutor.-I told you so: bat moderate your anger and tell your story, and William and Levi can say zay whether you state the case James.-As we carne home from the vil lage, we took the path across Mr. Jone's
mendow. A litile before we came to the meandow. A litulo before we came to the
creek we crossed over the the mill-race on a creek we crossed over the the mill-race on a
slab which lay close to the water. While alab which lay close to the water. While the stood on the slab G y. .e lid he saw stones and esked me to let hitn have my long Coasack Spear to catch it with. I gave It to him, but told him to be very eareful and not break it, because my Uncle gave it ken. The moment he had the epear in his hauds he thruet it into the water and I expeet it must hey
bent very much
George.-It did not tonch the bottom.
Jamer, -It must have struck somethin for I say it bent and we do not see straight eticks bend of themselvef. further the crab moved from lim the more violently he forced my spear in the ground for it bent almost double. The more I hegged tim to quit, the mo
George,-I say again it did not topel the
ground, and when 1 ha done I rermed
gave it to him he struck me on the head with
It and sald I was a wieked wretch.
Tutor-Well Levi, has Jamew stated the

## Levi.-Yes Sir

Tutor.-Was the spear bent?
Levi-It was: And the louder James begged to save his spear the mere George bent it until the crab got un
George.-1 protest it did not touch the
Will. $二$ I did not see the spear hit any thing but it was eertainly very crook od,
grow worso the iongor'floarge had it.

George. - They may say what they will
I did not see that the spear was bent at all and I'll engage if James pro
(Spear produced and examined by the Tu and all the boys)
Tutor.-The spear is both sound and
tratght.
James.-It is not through George's carefalness or good will if it is.
Tutor.-Hush! James. Perhaps George Showman that he wifched it crooked.
Jonaes. - Then Sir, We have learned
our lessons in vain, if every wicked felWin play tricks as he pleases.
William.-I thought it very naughty to hend the stick so, because it might brenk
and thicn Jame's Unele wothd be angry with Tvior.-George has dothe nothing wrong. The spear was not bent. I will
explain this matter as well as I can, and explain you understand the science of natural philosephy better I will explain it more
fully. Levi.- shall be glad to hear it explain-
Tutor.-Every thing we see is brought to our senses by means of light. Ligh comes from the sun or from a flame. It
may come in a secondary way by reflecon. That is, a dark body such as a piec he light of a candle or the sum so as to make it shiue in a place which is in the shad of some object which stands between tha pot and the body from which the rays of ight come. The moon shines only by re-Moon-lighir" is really the light of the sum hrown upon us by the moon fitereepting he sun's rays and throwing them back, or to one side, on us. Light or Rays of
light fly straight and never bend excep when turned aside by striking something. The rays may be turned precienty 5uch nu lhe objeet which gave them out, or more or
less to one side, ticcording to the position which you hold the looking-glass tha is to reflect thein. If you hold the glass quare across the straight line of rays,
vill throw them exactly back to the poin that gave them; but if yon turn the glass to hat side. The more obliquily you hol the glass' the more the rays will he cast to
one sidd. This you can prove when yo please by means of a looking-glass; and b using two a bo
his own liead,
Levi.-This subject is very pleasing and I shall be glad if you will assist us in try this bending of light has to do with giving George a right to break Jame's spear.
Tutor.-It pives no euch right. Eut is ten. Light passes straight except when urned aside. Now if something crosses straight line drawn from your eye to any object
jects.
Levi,-That I understand very well. I Willism goes behind the door I cannot see
him. Tutor.-The cause of that is, that the rays of light thrown off or reflected by his
body pass in a direct line and hence strike the door and come no furtier. But whe dicse rays pass through a medium that
dense they are more ohstricted than if the mediun be niore rare. By medium I ment about thio object seen, or between you an that object as air, water \&ke: Denise means miak or more easily perceived and Rar
means thin or less easily perecived, thu water is more easily perceived if you pas a stick toro than Now the rays of ligh ia passing from a dense to a thinner medium are bent or as phifosophers say refiac-
ted-and the more obliquely or astant they pass from one to the other the more they William.-I
will make of it. will make of it.
Tumer.-George thrust the spear into the
$\left|\begin{array}{l}\text { water almost perpendicularly at first, you } \\ \text { say, and at that time the spear was not much }\end{array}\right|$

Jomes,-So it appoared to me, and I suppose he did not push so bard at first.
William..-As the crab ran away he leaned he staf over more and then it bent very mueti.
Fomeor-True. The light in passing Cromso much of the staff as was under wayour eye; and whes it came to the top of the water it enocinto the air (a thimer medimm ) und hence, thongh the stick remaine rooked stick all secan thronglione medium The more you leaned the stick the crooking fiom it passed fron the one medium in o the other more obliquely. This fret ca bowl, then walk backwards from the bow until the sitver totally disapears helind the nto the bowl and the silver will re-appear. frst put my stick in the water it was straigh down and then appeared siraight because all the rays came out of the water from the course he reached after it and then som of the rays had to pass forther through the
water than others, and so represented or re lected it crooked. I now perceived th the stick scemel to be tent owing to iss p
sition, but was really straight as ever. Th singular matter is now accounted for with-
out witeh-craft. George, 1 ask your pa ton, and am sorry I struck you. George.-It is granted. I knew it d
ot touch the botom, but I was puzzled aceount for the bending which you alldecla ed took place, and therefore did not believe y watched the crab.
iutu..-Tut *ondtusion is chare ames, houg your reasoning differs from
(Enter Whlliem with a bucket of clear William.-Sce here James; this stiek sraight or crooked according as I hold pright or inclined.
Tutor. - I am happy to see you reconcilberate before we decido.

PART SECOND.
Levi. - The show-man performed some
or, Tutor.--That may be, but it only proves Ignorance of that branch of scieice, but loes not prove any superuatural ageney, but let us here you describe one performance.
Levi.-He had a swan in a large basin water; and though the fowl was only an nage artificially mado yet it moved abou the basin just as he told it or directed it, with
his wand: Willim.-I can account for that myself. There was a magnet in the Swan's bill and
the fellow had a piece of iron fastened on the stick which he called his wand. Of course the swan drew towards the iron because of the magnet.
James.- You have not explained it after
all. Why docs a maguet run towards I-
Tutor.-That is hard to explain. But it is true that a piece of stee, rubbed with or steel. A piece of Iron standing long on the sare end becomes mugnotie; and long rubbing two pieces of iron together in a cer-
tin wry makes the one atruet uther Iron. The steel when magnelisod and hung on a entre pin immediaiely assunes a norih and south pasition-
Hilliam.-This is the way the needles made I believe.
Tutor.-1t is; but as the matter is hatit
o explain in words, here is a magnet with wheh you may try the experiments.
(Magnel prodacod and and William pick
needles \&cc.)

Gcorge.-Another of his iricks is now
explained. He caused a needle to explained. He caised a needle to dance
on a pewter plate whitle he beat a tune on the opposite side with a nail. That nail I i.eci. - I a magneh
 difficult to tell how he enabled ne to see the time of day by Mr. Jone's watch when a
piece of tron an inch thick was placed beWeen us and the watch.
James, - That I tlink I understood. shaped wnow we looked through a long tube, for horing. The tube went straight, abour
six inclies and there went out a branch to
the right hand, which turned and rin some
distance parallel with the main tatie and
$\qquad$
end. The main tube was cut of in the
middle and hadabint wo
out. The iron bar was placed in this gap.
end of tho tube we saw it just as plainly as
Jone's heid here not there. When Mr
ume as well as if nothing lad been in the
wny. I helibe however wo did not see
Mr. Jone's watch at alf, but saiv another
watch in the tube ketween us and the irom Levi- $-\ln$ that you are mistaken, for the vatch dissppesred when Jones took his vay. Besides how could we see en ing eise if a watch hat been in the tube James.-True. I did not think of that
Tutor.-The sight of the wateh wns consequence of a looking glass placed ob liquely at eath angle of the crooked tube so
as to bend the rays and throw them along three sides of the square, you spoke of, in-
stead of allowing them to pass straight thro' te main tube as they would do if left disturbed. Every olject you saw thtough the tube was seen through the three sides and not through the one; so that shutting up ho main tube made no difference. In fact ee througlis a looking glass.
George.-I have some idea of it now taid the power of that tube was such that he could see things hid in the bowels of the com of the sea, as well as when plaialy i view. He said he could see men's hear as well as thoy could see their own hande on that fact:
Tutor.-The tube is a simple insiru. ment that any carpenter, with a few mineither of you can tell fore, and with its aid, As to his seeing inviaible things, his asser ion is a fulseliood: And his fortune telling os merely telling tgnorant poople any thing which he supposes will please them, for the parpose of swindling them out of thei
money;
Williant.-He had a box into which w put our heads, and he covered us up quit lark. When we were ready to look he opened a hole by meats of which we saw
persons walking, tiding, working, \&e. and saw towns, woods, rivers, and many othe
things, He said he was showing us the city of Jerisalem daring the builditig of Sol onon'sT'emple, and I really saw mea work ing at a very great building.
ge mind the people in it by means of $r$ flected light. The building was the ne church, and no doubt the myatery he thre about the matter raised your expectations b jects shown you were the same that you Lis berore you entered the box.
Levi- Alihowh
I do mothough the fellow has cheato has led to ane begrudge my ahilling saeing in as to present bewg cheated again. I shoul whe to hare some further explanation. time. It is too tate now. In the mean time you may gain muelh information by reading a treatise on untural phitesophy.-
You will find a description of the way in Yon will find a description of the way
which the ciyy and temple was shown ua der the head of Camera Obscura. Caliawiash, January 1, 1839.

## 1PGLTMTROAR

ADDRESS TO THE
TREEMEN OF PENNSXLVANIA.
The Committee of Safty embances this
The Committee of Safely embraces this und satisfactory termintion of the disorderg, usurpations and dangers, at the capiol of osurpations and dangers, at the capitol of che state, which menaced the purity of the
clective franchise-threatented to subvert the constitution and laws, and to prostrate our republican government, at the dato of is last address to the people. This happy result, is the fruit of the firmness, union and of both houses of the legislature systrined of both houses of the legislature sustained by the approving plaudis of the entire denecracracy, and a respeotable portion of fil preceedingy of the secretary of state ind other officers of government of Pennslvauia, on the th h . house of my . fiadig onsentaives, produced a burs $y$ and tomnship within the borders of this commonweallh, which struck the governot and his confederate conspirators against the may. They faultered in their lighlianded
may the people, with the deepes disusurpationg, but refused to recede. The military forces were called here to stimulate dre friends of the Governor, as well as , tave the people. It was hoped that the roee of censure would he hushed, and the hearts of the wavering friende of the admin stration be inspired with new courage by he gleaming of a thousand bayonets, and intimidations of a battery of canion. The pretext, that an "infuriated armed ased to jusify the assenbling of soldiers in Harrisburg, is considered too idle and fidiculons for refutation, by all honorable and candid men even of the federal party: It is known to be false by every individual who was in the eapiul daring the arevent acribed, and it is a suhjeet of painful and rived, and c a govetnor of Pensylvania shonld hive corited , Peverid groundless attacks upon that portion of the people, whom aceident curiosity, of an ansious devotion to the cause of the consti'ber Harrisburg on the 4 th of December. Whatver violence of proceeding occurred tha senate on that day, is immeciatity atribuad conable conduct of the secretary of stite ad his political friends and associates I They alone produced, and are answerablo or, the consequences. There was "no nob," armed or unarmed, organized in he benato chamber, to overawo the members or subjeet their actions to his wille The coufusions that followed the unserupuTsisurparis of the secretary of state ad his political adherents in that boty, on day referred to, were the sudden and when troble emotions of honest frevisa rampled on anit insulted, by the darty whose organ, the present printer of the sane, had proclaimed, a month before the ecting of the legislature, that the minority of repreantaties for the senale Ielphin, weoull have their sogto-hrecege dyif they could forcibly if they muith It was manifes from the proceedings of the senate, that this threst was filiended to e carried into execution, and if disapproation was eypressed' eren ill the senate
 should auprime those who aroed shond to phe of or proa here 1 who hope if hey er in 1 lim tat "something will be pardoned to the pirit of lisery
But if it was even true, as alleged, tha: he proceedings of tho people in the senate Ind violent us io ietrapt tho setion of the senate, it would not justify the assemibing of the miliary forees as the eapital, for it if yet pretondod by any man who had a "eow-

