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body.

laws unto all things; and he adapted tain law. Now, if you were to take 31 minutes and 44 seconds of an arc, velocity is one fourth of ours. When law. He did so in the instance when these laws, according to the condi- a material body, as for instance, a instead of 90 degrees, as in the in- twenty-five times more distant, Elisha caused iron to swim. We tion and circumstances of all things. stone, 4,000 miles above the stance just named, and the form of the orbital velocity will be one-fifth, read, that as one was felling a beam, All agents, free agents, who surface of the earth and let go of it; the orbit would be greatly changed: and so on to any distance. the axe head fell into the water. have light and knowledge to it would only fall one-fourth part of the distance from the Sun, when Here, then, is a regular law of The man was much concerned, beknow how to act, how to the distance, in a second, that it will nearest, would be only sixty-one velocity; and you may extend this cause it was a borrowed axe. "And discern good from evil, will be judg- fall here, near the surface of the millions of miles; and in six months to any distance, in the solar system, the man of God said, Where fell it? ed according to one law. They are earth. Why will it not fall with the after, the distance would be doubled, that you please. And he showed him the place. And not compelled to obey the law which same velocity up yonder as here? that is, one hundred and twenty- Now, who ordained this velocity? he cut down a stick and cast it in they hear, but they can act accord- Because the law which God has two millions of miles. Under these Did the unconscious materials of thither; and the iron did swim." ing to their agency, either in obey- given in relation to these materials, circumstances, the Sun, when near- nature come together, and undertake Now what was it that caused the axe ing or disobeying, receiving the varies in its intensity of force, ac- est, would appear four times larger to consider this matter? Here are to rise in the water? The same Beblessings of obedience or the fruits cording to some law of the distance than at its aphelion distance. laws that are conducted with great ing who gave the law of gravitation, of disobedience. The Lord has giv- from the central force. A body will You see, then, how easy the intelligence, - intelligence which caused the axe to sink, counen a great many laws, besides those fall, near the earth's surface, about Lord, by deviating the angle that was not understood teracted that law, and caused the which he has given to free agents, 16 feet and one inch, in one second of projection, could cause a great for several thousand years preceding axe to swim. The same Being who or to intelligent beings; but they of time. You take it up 4,000 miles, difference, in the eccentricity of the period of Newton. We have no gave the law of universal gravitadiffer in their nature, according to and it will fall only about four feet an elliptic orbit, without al- account that the most civilized na- tion, can counteract this law. He the condition and circumstances of in one second of time. This has tering the mean distance, or without tions of the earth had any idea of did it, in many instances, in ancient the materials to which these laws been demonstrated by the action of shortening or lengthening the year. the law of velocity depending on the times. He divided the Red Sea to are given. See a revelation upon the the earth upon the moon which is The year would remain the same, inverse square root of the distance. allow the Israelites to pass. The subject of these laws, which was nearly 60 fimes further from the without any deviation in its length, Yet this law existed, whether un- water stood up like walls, in a given on the 27th day of December, earth's centre than we are. The moon if the Earth revolved in an ellipse of derstood by man or not; it made no great heap, not for a few seconds, 1832 (Doc. &. Cov. pp. 305 to 310). only falls toward the earth about the kind that I have just named. difference whether the nations were or minutes, but stood there suffi-This revelation was called, in those the eighteenth part of one inch in a Again, if you wanted the Earth to ignorant in regard to this matter or ciently long to allow the Israelites to days, the "olive leaf." In this reve- second, which is about 3,600 times go so near the Sun that it would al- not, the law existed, and operated get to the other side of the sea. Now, lation, the Lord informs us that "he slower than a stone or other bodies most graze its edge, and still retain for ages unperceived by mortals. what was it that counteracted this hath given a law unto all things by would fall at the earth's surface. the length of our year unchanged, it The Latter-day Saints say, that law of nature? What was it that which they move in their times and Thus, it will be perceived, that this would not take our advanced univer- the Lord of Hests who has given us caused this watery element, which their seasons." These laws which gravitating force diminishes in its sity students long to determine the laws, adapted to our condition as has a tendency to spread out and are given to the materials of nature, intensity according to a fixed law, angle of projection the Earth should free agents, has also given laws to sink to its own level, to stand up in are generally obeyed. There does depending on the distance from the have, so as to just graze the edge of these material worlds, by which a heap, almost like a solid body? The not seem to be any agency on the centre of the earth. This law was the Sun, at the perihelion distance, they act and by which they are pre- same Being who gave the law, which part of these materials, so far as discovered by Newton. It is known and come back again in an ellipse, served, for a great, and wise and governs the yielding liquid properwe naturally comprehend it; at beyond all controversy, that if we go which would be almost equivalent to good purpose, to sustain unnumber- ties of water, can counteract the least, if there is an agency, it seems twice the distance which we are from a straight line, provided it was pro- ed myriads of animated beings, who law, so as to make the water stand to be very obedient instead our earth's centre, bodies will weigh jected at the mean distance that we are by numerous other laws adapted in heaps. God is the great author disobedient. Hence, when two times two less than they weigh now have, with its present mean ve to these worlds, and enjoy life there- of all law, and is just as able to he issues forth a law to govern the here. If we recede thrice our pre- locity; and the year would be ex- in. We now have been speaking of counteract a law, as he is to continue materials of creation the law seems sent distance, bodies will weigh actly the same as now. I mention the infinitely wise law of the velo- a law. Let him withdraw the comto be obeyed; at least we do not know three times three, or nine times less these things to show you how the city of planets. But this law would mand that materials shall attract all of any disobedience. It would al- than if weighed here. At ten times Lord, by a little deviation, can de- not preserve our universe in its pres- other materials; let him say to matmost seem as though these mater- the distance, the weight would be sign a great variety of orbits, in ent beautiful order, if the law of ter, "I no longer require you to act, ials act under compulsion, and are ten times ten less than here. At which worlds may revolve, accord- gravitation was not exactly what it according to that law," and you really obliged to act as they do. Yet sixty times our distance from the ing to law; for all these things are is. We say that the law of gravita- would not find the earth going in there are some sayings in this same earth's centre (which is the distance done according to law; and if actual- tion acts inversely as the square of an orbit round the sun. There would revelation, which seem to indicate of our satellite) bodies would weigh ly projected, as we would propel a the distance. Now, why don't it be no bond of union to keep things that there is a degree of intelligence toward the earth, sixty times sixty cannon ball, then all the Lord has to vary as the cube of the distance? in their proper place; everything even in these materials. We read less than they weigh here; but sixty do is to decree the form of the ellip- Why don't it vary inversely as the would be left to itself. Let God withthat "the earth abideth the law of a times sixty are thirty-six hundred; tic orbit, having one year for its de- distance itself? Why don't it vary draw his law, or let him command celestial kingdom, for it filleth the that is, a pound would weigh thirty- scription, and the projecting angle inversely as the fourth power of the adversely, and he will be obeyed; measure of its creation, and trans- six hundred times less if carried to will be, at once, known. distance, or some other law of dis- because he has the power thus to gresseth not the law." This would the moon's orbit, than here. seem to indicate that there is some-thing construct the language of mathematicithing connected with the earth ans, "the intensity of the gravitat- ture. It is not a law of blind ma- truction at once; it could not be sug- is in and through all these things,

take down the discourses of the ser: track marked out, does so according ed from the hand, would still remain us. We don't know what you mean powerful in their nature, and prevants of God; they are recorded to law, as much as we do when we where it is set free. by inversely and don't know what serving the grand machinery of the there; and the books will be opened go forth and are buried in the wa- Again we see our world here-the you mean by the square root; for all of universe, in the most perfect harat some future time. All the warn- ters of baptism. We go according to earth on which we are permitted to us have not sufficiently studied mony in the working of all its ings that have been given to the law, and obtain a blessing, so does live and have our being,-sweeping arithmetic so as to understand the parts? Latter-day Saints, and to the world, the earth, when following the course around the great centre of the solar roots and powers of numbers. In There must, then, have been some will again come up, in the own due marked out for it. "God hath given system, once in 365 days and a frac- reply, I will say, that it is some- great supreme intelligence who ortime of the Lord, in judgment; and a law unto all things, by which tion of a day; it has continued in this thing very simple to all advanced ganized these worlds and gave them it will be required of us to render an they move in their times and their path, not only through a few centu- arithmetical students. Let me say laws of attractive force and adjustaccount, whether we have been seasons." We know that all of these ries, but for thousands of years; or, a few more words, in regard to this ed velocities and thus produced obedient to those warnings, or great movements, which we observe in other words, it has followed this law; for this is also a law of God. the harmonious orbits which we whether we have been disobedient. taking place in the universe around course according to some undeviating For instance, we will say, that the have, and which will preserve them-The Lord is a consistent Being in us, are conducted according to cer- law. Whatever this law may be earth travels a certain distance in selves, unless interfered with by all his doings. He will not condemn tain laws, which mankind have, in God has ordained it, for he has or- one second, which we will call a some extraneous force, for thousand the children of men, for not re- a few instances, been able to search dained "the law which is given to unit distance or 18 miles in a second, of years to come. ceiving something that they were out themselves, through the intelli- all things, by which they move in in its orbit-we will call this distance We might go on and speak of a ignorant of; but, if they are con- gence that God has given them. For their times and their seasons." one. We go four times further off great many other principles connectdemned at all, it will be for reject- instance, we see a force in exercise, This earth does not revolve than our earth is from the sun, and ed with these laws, but let us now ing something that they have un- when we lift up a stone from the around the sun, once a year, take the square root of four But, come to the laws given to intelligent derstood, or something that they ground, and hold it in our hands; the in a circular orbit, but in an oblong, inquires one, how do you get the beings. God has given laws to what might have understood, had they moment we let go this stone, it falls elliptical orbit. Now, it is just as square root of four? A number might be termed intelligent nature; improved the opportunity. They to the earth. What causes it to easy to cause a body to revolve that will multiply into itself, say but let me say, that what is termed will be judged according to law, ac- fall? Philosophers tell you that "it around the Sub, in an ellipse, as in two into two, makes four; two then, intelligent nature is something call. cording to testimony, and according falls according to a law of nature" a circle. For instance, if our Earth, is the square root of four, that is, it ed in this same revelation from to that which is written in the But who is this nature that gave when at its mean distance from the is the direct square root, not the which I have been reading, a spirit, sacred books. The records of heaven this law? Why do material bodies Sun, should be projected, with its inverse. But now you put this figure 2 or rather, a power that " is in all will be opened The records, kept fall? Why do they not re- present mean velocity, in a line at underneath a line, and place the fig- things, through all things, round by divine authority on the earth, main stationary suspended in right angles to the line joining the ure 1 above it (thus 2) and such a about all things, and the law by will also be opened. The evidences the air, or in a vacuum? Earth and Sun-it would describe a fraction is the inverse square root of which all things are governed." It and testimonies will be set forth; Why do they have a tendency to perfect circle around that luminary. four. Hence, one-half the velocity s, then, an intelligent power that and every man and every woman, approach the centre of the earth? But let the projections deviate from that our earth has, must be given to encircles itself through, or over, or who is condemned, in the great judg- It is because there is a force a right angle, a little less than one bodies which are four times further round about every particle or every ment day, will be condemned accord- which draws them towards such degree, and it will take the very from the sun than we are. When atom, and these atoms act in according to law, according to testimony, centre. What is this force? Scien- form of orbit it now has, provided it nine times further off from the sun ance with the law that is ordained, according to evidence, according to tists have called it gravitation; but is projected with the same mean ve- than we are the orbital velocity will and do not deviate from it unless the light that has been given, ac- the name does not explain the force. locity that it now has. Again, let be only one-third of ours; because commanded by the same authority cording to the deeds done in the We are certain that a central force this same Earth be projected, at its one-third is the inverse square root that gave the law. The same Being exists; and that such. force is some- mean distance from the Sun, in a of nine. In like manner, when six- who gave the law to materials by The Lord is a Being who has given thing that acts according to a cer. line making an angle of 70 degrees, teen times further off, the orbital which they act, can counteract the