

Comprehend, coalesce, and illustrate the following:

Period of oscillation

Due to simple harmonic motion the period of oscillation of the dangling “object” is

$$T = 2\pi\sqrt{\frac{m}{k}}.$$

Where T is the time of the period of oscillation, m is the mass of “the object” and k is the spring constant of “the object”.

Equilibrium

In the state of equilibrium of “the object”, all net force is cancelled throughout the entire “object”. This results in a stationary “object” with zero velocity. As the positions of each part of “the object” is governed by “the object’s” mass, the force of gravity and the spring constant, various other properties of “the object” may be induced. The length of a perfect example of “the object” with zero length when extended is

$$L = \frac{W}{2k}.$$

Where L is the length of “the object”, W is the weight of “the object”, and k is the spring constant of “the object”.

Due to the forces of gravity, “the object” appears bunched up towards the bottom end, as the function of the position of “the object” is

$$p(n) = L(n - 1)^2.$$

Where n is the dimensionless variable ranging from 0 to 1, 0 being the top and 1 being the bottom of “the object”, and each number between is the percentage of “the object’s” mass above point n, and p(n) gives the position that n is above the bottom of “the object”.

This quadratic equation means that rather than the center of mass being at the middle of “the object”, it lies one quarter of the length above the bottom end,

$$p(0.5) = L(0.5 - 1)^2 = 0.25 * L.$$

The Bible is more complicated than an equation!
 66 books that aren't arranged in chronological order, written
 thousands of years ago- another time, another place; of
 cultures we don't relate to, tackling invisible spiritual issues.
 It's enough to overwhelm or turn anyone off. But see
 it in action and I bet you'll want to get closer.



Want a “slinky”? (that's a Bible)

“Ask Me and I will tell you remarkable secrets you do
 not know about things to come.” **Jeremiah 33:3**

“Seek the Kingdom of God above all else, and live
 righteously, and He will give you everything you need.”
Matthew 6:33

This reminds me of a wee little man... **Luke 19: 1-10**

- What events lead to Zacchaeus seeing Jesus?
- Why did Jesus call him by name?
- What changed in Zacchaeus life?
- How about you? How bad do you want to see the truth of the Bible? What are you willing to do for it?