

Errata

Test of FAITH Leader's Guide, page 103 & Study Guide, page 77

The text:

3. The amount of **matter** and **energy** present at the time of the Big Bang had to be very finely balanced. If this balance had not been exactly right, the universe would either have collapsed as soon as it began because of the strength of gravity or it would have blown apart too quickly. The probability of this balance occurring was about 1 in 10⁶⁰ (one with sixty zeros after it).

Should read:

3. The amount of **matter** and **energy** present at the time of the Big Bang had to be very finely balanced. If this balance had not been exactly right, the universe would either have collapsed as soon as it began because of the strength of gravity or it would have blown apart too quickly. The **amount of matter and energy present had to be correct to an accuracy of 1 in 10⁶⁰** (one with sixty zeros after it).

The text:

5. **Gravity** would cause the universe to collapse, but there is a force called the **cosmological constant** that works against gravity. The cosmological constant has to have a very precise value so that the universe can be stable. If it were any greater, all the matter in the universe would be torn apart very quickly. If it were smaller, the universe would collapse.

Should read:

5. The **cosmological constant**, often called '**dark energy**', acts as kind of anti-gravity force, pulling the universe apart. It has to have a very small value, very close to what is observed. If it were much greater than it is, the universe would fly apart so rapidly that no stars or planets could form.