

Fantasticamos STEM + Faith Adventure Lab

Parent Answer Key and Scoring Guide



Scoring Guide

Score	Interpretation	Suggested next step
27-30 core	Master Explorer	Proceed to challenge questions or capstone.
22-26 core	Strong Investigator	Review missed explanations, then begin capstone.
16-21 core	Growing Scientist	Revisit two chapters and retake selected questions.
0-15 core	Needs Guided Review	Complete hands-on examples and answer orally before retesting.
8-10 challenge	Advanced Scenario Reasoning	Invite an independent investigation with explicit limitations.
5-7 challenge	Developing Scenario Reasoning	Discuss variables, consistency, and model limits.
0-4 challenge	Needs Scenario Practice	Use sorters and parent-led examples.

Scores assess this resource's objectives only. They do not measure a child's worth, faith, intelligence, or salvation.

<https://blogging4adventure.com/2025/08/24/stem-faith-adventures-learning-gods-world-through-science/>

Final Assessment - Questions 31-40

Circle one answer. The 10 challenge scenarios are included in the standalone parent file.

31. Two paper planes use different paper and different wing shapes. Can the family conclude that wing shape caused the distance difference?

A. Yes, because the farther plane wins B. No, because more than one factor changed C. Yes, if the child predicted it D. No, because paper planes cannot be studied

32. A bean jar grows mold. What is the best response?

A. Ask a child to smell it B. Hide the result C. Let an adult seal and discard it, then review moisture and cleanliness D. Eat the unaffected bean

33. Filtered model water is clear but came from soil and tap water. What can the family conclude?

A. It is safe to drink B. Some visible particles were removed; safety was not established C. All chemicals were removed D. The model is a real treatment plant

34. One bridge carries 80 U.S. pennies once; another carries 72, 75, and 77 in three trials. What should the family do?

A. Declare the first universally strongest B. Repeat comparable trials and examine consistency C. Ignore all lower values D. Change the span each time

35. The weather journal misses Tuesday. What is the honest data entry?

A. Copy Monday B. Guess from memory C. Mark Tuesday as missing D. Delete the week

36. A child says, "Static electricity is invisible, so it proves invisible angels." What is the best response?

A. Agree because both are invisible B. Explain that shared invisibility does not make two claims scientifically identical C. Say electricity is not real D. Use more tissue paper as proof

37. A color mixture looks brown instead of purple. What should the learner record?

A. Purple, because the chart says so B. Brown or muddy, with the actual amounts and product used C. Nothing D. That science failed

38. A tray model shows less erosion under mesh. What is a responsible conclusion?

A. Mesh always prevents all erosion everywhere B. Under these model conditions, the mesh-covered tray lost less visible sediment C. The model proves one national policy D. Erosion is no longer possible

39. Why is Luke 14:28 only a secondary engineering analogy?

A. Jesus is speaking about counting the cost of discipleship B. Towers are not structures C. The verse has no meaning D. Engineering cannot include planning

40. A learner earns every badge. What does that mean?

A. The learner completed the defined adventure tasks B. The learner is saved by achievement C. The learner is more valuable than a sibling D. Every conclusion is correct

Parent Answer Key - Questions 1-20

Use explanations to guide discussion rather than merely announcing a letter.

#	Answer	Key idea
1	B	The root is 14 millimeters long.
2	C	The triangular bridge will hold more U.S. pennies.
3	B	A tentative, testable explanation
4	B	Keep the measurement method consistent
5	A	Recorded observations and measurements
6	B	The evidence from three trials supports Design A under these conditions.
7	C	A root
8	B	Thick fur that helps an animal in cold conditions
9	A	Children create possible features for a habitat
10	C	The output must never be drunk
11	B	Carbon dioxide
12	B	To prevent gas pressure from building
13	A	Shape that displaces more water
14	A	Dyes, amounts, lighting, and background differ
15	B	To observe variation and compare averages
16	A	An opaque object blocks light
17	B	Vibration
18	A	A push or pull
19	B	Short-term atmospheric conditions
20	A	Seven days are a short sample

Parent Answer Key - Questions 21-40

Use explanations to guide discussion rather than merely announcing a letter.

#	Answer	Key idea
21	A	Movement of weathered material
22	C	They are apparent patterns viewed from Earth
23	A	A design limit or requirement
24	A	Wet joints make the test unreliable
25	B	It is often approximate
26	C	The root grew 12 millimeters
27	A	Finding and fixing problems in instructions or code
28	C	Child username and private server address
29	B	A posture of delighted attention to the LORD's works
30	C	The experiment shows a natural process; Scripture and reflection are discussed separately.
31	B	No, because more than one factor changed
32	C	Let an adult seal and discard it, then review moisture and cleanliness
33	B	Some visible particles were removed; safety was not established
34	B	Repeat comparable trials and examine consistency
35	C	Mark Tuesday as missing
36	B	Explain that shared invisibility does not make two claims scientifically identical
37	B	Brown or muddy, with the actual amounts and product used
38	B	Under these model conditions, the mesh-covered tray lost less visible sediment
39	A	Jesus is speaking about counting the cost of discipleship
40	A	The learner completed the defined adventure tasks