

19. This is a YOUNG / MATURE / OLD river. 20. List two pieces of evidence that support your answer to the above question.

A)

B)

Zoom in on the middle of the map. Find Lake Britton and Lake Jackson.

21. How did those lakes form? What are they? What is the proper geo-term for these lakes?

22. Your slick bro-in-law housing developer wants to sell you a 50% interest in 20 upscale acres here for only \$200,000 for 20 acres. "We're gonna make a million bucks. Trust me!", he says. Do you invest? Why or why not?

23. Put the 3 rivers you just looked at in order from the river that has the highest speed (and erosion) to river with the lowest speed.

FASTEST _____ MEDIUM-EST _____ SLOWEST _____

24. Put the 3 rivers you just looked at in order from the greatest volume/discharge to the river with the lowest volume.

GREATEST _____ MEDIUM-EST _____ LEAST _____

Go to -> <https://www.google.com/maps/@33.0363685,-112.8780379,10225m/data=!3m1!1e3> This is "Painted Rock Reservoir". Notice anything missing in this reservoir or dammed lake? Zoom out. Follow the river upstream.

25. What do you see all along the Gila River valley? _____

Read about Painted Rock here -> https://en.wikipedia.org/wiki/Painted_Rock_Dam

26. For what % of this river's history did the Gila River run unpolluted? 5% / 10% / 50% / 99%

27. How many years do you think it took to mess it up? _____

28. Would you want to get your drinking water from the wells next to this river? Why or why not? Explain.

Go to -> <https://www.google.com/maps/@33.6935993,-112.057698,667m/data=!3m1!1e3>

This is the Central Arizona Project Canal (CAP). (It will go UNDER rivers and mountains. Keep going. When it runs into a big mountain range, just keep maintain the same bearing as the canal. You'll see where it leads.)

29. Follow the CAP canal to its starting point to the west. It appears to start at the _____

Read about the CAP and look at the pictures on Wikipedia. https://en.wikipedia.org/wiki/Central_Arizona_Project

30. What happens at the place in your answer to #29? _____

Switch to map then to terrain view.

31. The elevation of the water here is _____ ' but the elevation where it exits the mountains to the south is _____ '.

32. How can this happen? What must happen to cause the water to do what you said in your answer to #31?

Go to -> <https://www.google.com/maps/@36.9005069,-111.3909657,2564m/data=!3m1!1e3!5m1!1e4>

33. What is this thing and what does it do?

34. What do you think this has to do with the CAP? Why could the CAP not exist without this?

Go to the CAP mountain exit. -> <https://www.google.com/maps/@34.1813604,-114.0681524,5306m/data=!3m1!1e3> Follow the canal to its end. This will take a while. Follow, follow, follow. Like Forrest Gump, just keep running....

35. Describe the CAP's path from the beginning to as far as you can follow. [This link](#) may help. But follow it on the map, too. Really.

36. The eventual end of the CAP is _____ (Good luck!)

37. Why did we build this? (Can't figure this out? Look at what the canal passes by or go back to the Wikipedia link.)

Drainage - Go to -> <https://www.google.com/maps/@37.8389852,-110.4258189,4816m/data=!3m1!1e3>

Look upstream. Look downstream. Lookie, lookie, lookie. Ignore the white reflections upstream off the water's surface.

38. This is the _____ river on Lake _____ in the state of _____ near the town of _____.

39. Where the river meets the lake, there is a lot of stuff stacking up. What is that?

40. What is causing this to stack up here? (Look far downstream for the answer. Use the term *base level* in your answer.)

Go to -> <https://www.google.com/maps/@38.2290952,-109.8236073,4791m/data=!3m1!1e3>

41. Explain how this formed.

Go to -> <https://www.google.com/maps/@31.7833692,-114.8747321,82945m/data=!3m1!1e3>

42. This geologic feature is a _____ in the state/country of _____

43. Explain how this area formed and what it has in common with the feature in questions 36-39.

Go -> [HERE](#).

44. You are in the state of _____ near _____

45. What is that formation stacking up at the base of the mountains here? How was it made? Again, use "base level" in your answer.

45. Which of the 4 types of drainage is here? RECTANGULAR / TRELLIS / RADIAL / DENDRITIC

Go to -> <https://www.google.com/maps/@46.8574877,-121.7320582,66725m/data=!3m1!1e3>

47. Where are you? Where is this feature? _____

48. Which of the 4 types of drainage is here? RECTANGULAR / TRELLIS / RADIAL / DENDRITIC

49. DRAW a cross section of each of the three "ages" of river valleys. Use the back of your paper if needed.

YOUNG

MATURE

OLD

Summary. Describe two geologic things you learned or include questions you still have.

A.

B.

