

Rocks on the Move Franciscan Complex Crossword Puzzle

Golden Gate
National Park Service
U.S. Department of the Interior



Activity: Franciscan Complex Crossword Puzzle

Purpose: To familiarize students with the rocks of the Franciscan Complex

Duration: 20 to 30 minutes (less time is needed if students work in groups and use the word list)

Materials required:

- One copy of the crossword puzzle and clue list per student
- Puzzle solution for teacher reference
- *Franciscan Rocks of the Golden Gate* [information cards](#)

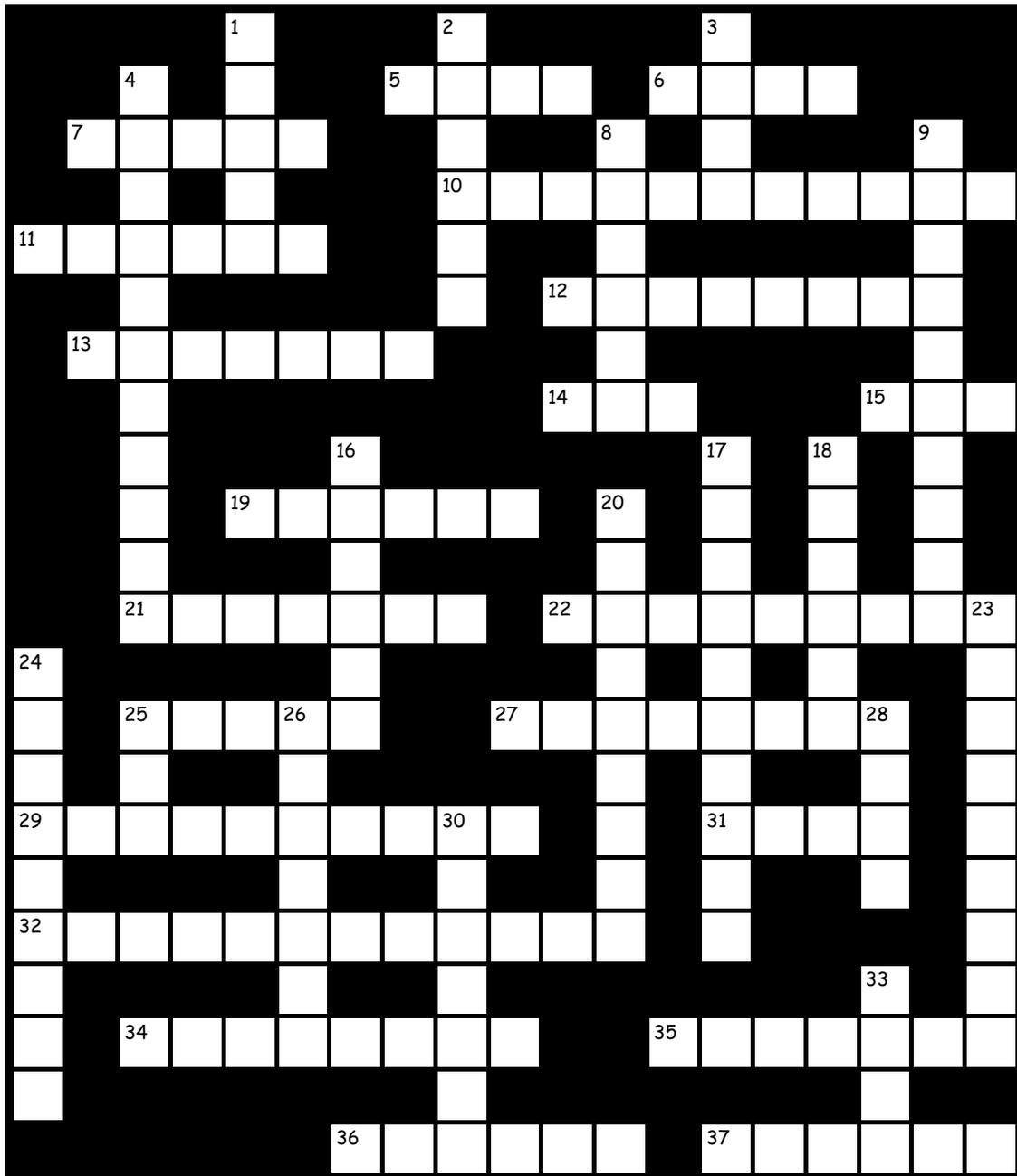
Optional materials:

- One copy of word list per student (using the word list will make this activity easier and quicker for students to complete)

Directions:

Distribute the sets of the *Franciscan Rocks of the Golden Gate* information cards throughout the classroom so that all students can view them as needed. Have students work individually, in pairs, or in small groups to complete the crossword puzzle. Answers to the clues can be found in the information cards.

Franciscan Complex Crossword



ACROSS

5. A combination of minerals; sandstone is an example of one.

6. "Polka ----", the visual remains of gas bubbles in lava rock.

7. Approximate length of a single "pillow" in basalt; metric near-equivalent of yard.

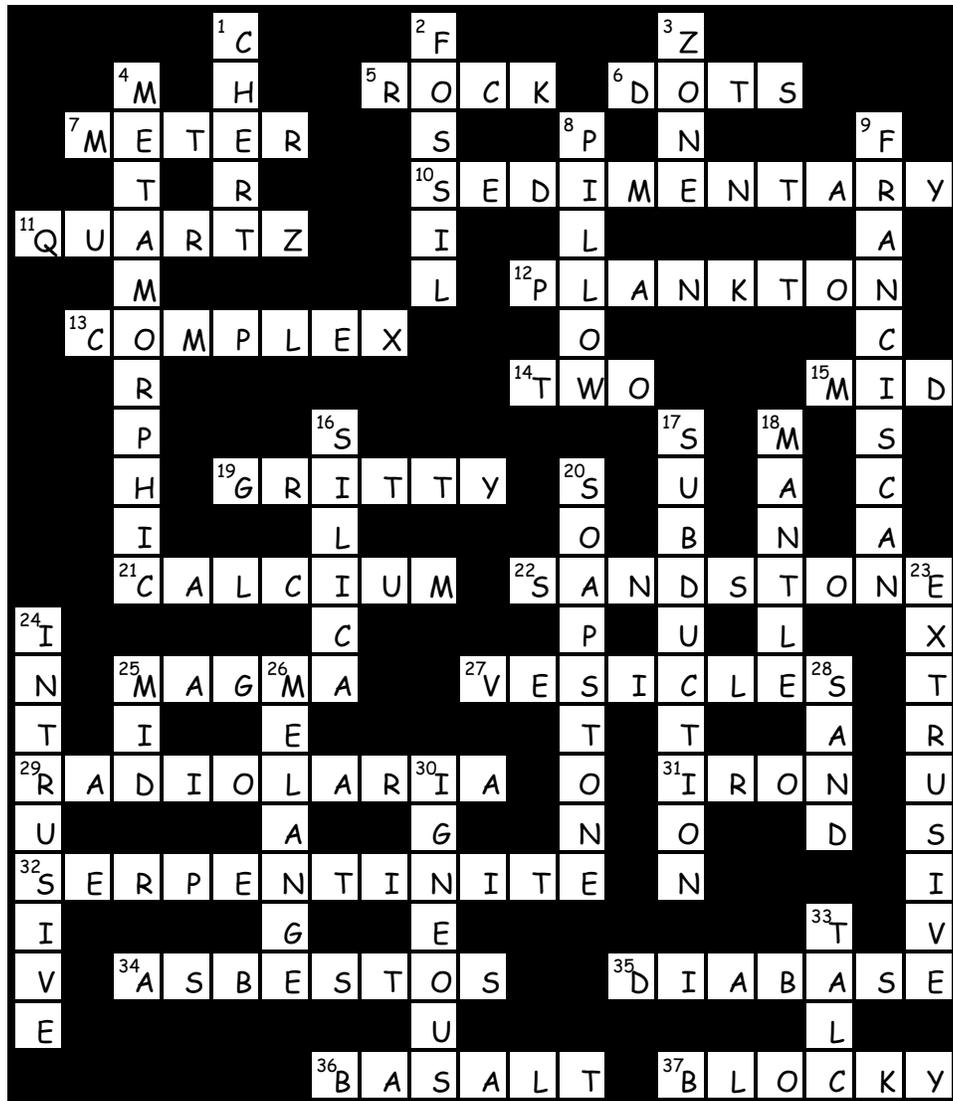
10. Rock classification of deposition; graywacke is an example.

11. Crystalline silica; found in chert.

12. Drifting organisms common in some watery habitats.
13. Franciscan C-----x.
14. Number of tectonic plates found in the San Francisco Bay Area.
15. --- Atlantic ridge.
19. Texture of graywacke and sandpaper.
21. Lacking in serpentine soils, but abundant in milk.
22. Graywacke is an example of this kind of sedimentary rock.
25. Vulcan's stew, or origin of lava.
27. Remnant of lava's gas bubbles.
29. Class of plankton whose skeletons are found in Franciscan chert.
31. Rusts in the rain.
32. Altered mantle rock; California's state rock.
34. Toxic mineral of serpentinite.
35. Intrusive igneous Franciscan rock.
36. Earth's most common rock; extrusive igneous Franciscan rock.
37. Shape of pieces of Franciscan chert.
20. Type of serpentinite good for carving.
23. Volcanic, or opposite of intrusive.
24. Nosy, or opposite of extrusive.
25. Same as 15 across.
26. French for "mixture" or sheared and mixed Franciscan rocks.
28. Product of weathering; found on the beach.
30. Rock classification of Vulcan.
33. Powdery mineral of serpentinite.

DOWN

1. Stone tool quartz rock of Bay Area indigeneous people.
2. Evidence of past life found in rocks.
3. Subduction ----.
4. Rock classification of changed shape or alteration.
8. Shape of underwater eruptions, or something to rest your head upon.
9. Place name for the complex of Bay Area oceanic rocks.
16. Silcon dioxide; abundant in chert.
17. Sinking process around Ring of Fire.
18. Beneath Earth's crust, or above the fireplace.



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Franciscan Complex Crossword Puzzle Word List

Mid	silica
two	calcium
dots	Complex
iron	diabase
rock	igneous
sand	mélange
talc	asbestos
zone	plankton
chert	vesicles
magma	extrusive
meter	intrusive
basalt	sandstone
blocky	soapstone
fossil	Franciscan
gritty	Radiolaria
mantle	subduction
pillow	metamorphic
quartz	sedimentary
	serpentinite