Basin and Range, Death Valley, White Sands, Carlsbad, Columbia Intermontane, Lake Roosevelt (Eastern Washington geology), Newberry Volcano, Craters of the Moon

1) The most common rock found in the Columbia Intermontane Province is the rock called (1).

2) Most of the rock found in the Cheney-Spokane area is about (2) years old.

3) The huge Newberry Volcano is an example of a type of volcanic cone called a/an (3).

4) The most common type of cone found in Craters of the Moon is a type called a (4) cone.

5) The basis of the grain industry in eastern Washington is the presence of the geologic material called (5).

6) Death “Valley” is actually a structural feature called a/an (6).

7) The most important material formerly mined from Death Valley were minerals containing the element (7).

8) The limestone at Carlsbad and Guadelupe Parks formed during the late Paleozoic time as a/an (8).

9) The combination of the compounds (9) and (10) form carbonic acid which can then cause limestone to dissolve and form caves.

10) Most sand dunes are formed of the mineral quartz, however, the mineral called (11) forms the dunes at White Sands.

Slide #1:
12-14) Sketch this view south from the parking area by Badwater. Label the names of the landform and other prominent geologic featurees shown here. What is the “bump” in the slope called in geological terms?

Slide #2:
15) The rock shown here in a certain part of Death Valley National Park is called a/an (15) _____.

16-17) Explain what causes this type of feature to form.
Slide #3:

18-20) Sketch this view in Lechuguilla Cave (in Carlsbad Caverns National Park). Label three different types of prominent speleothems shown here.

Slide #4:

21) __________________________ These volcanic features in eastern Washington are called __________________________ (21) _____.

EXTRA CREDIT: Explain how they form.

Slide #5:

22) __________________________ The rounded rock shown here (same photo as the one in your textbook) is called a/an (22) _____.

Slide #6:

23-25) Sketch this view of the top of Newberry Volcano. Indicate the location and geologic names of the three or four major volcanic features shown here. Where applicable, indicate which features were produced by high silica or low silica magmas.

Slide #7:

26) __________________________ This photo from the Channeled Scabland booklet shows an excellent example of features called (26) _____.

EXTRA CREDIT: Explain why these were important in convincing skeptics of the validity of the hypothesis proposed by Bretz.

27-30) What caused Lake Missoula to form? What connection does it have to the origin of the topography in the Cheney and Grand Coulee areas?