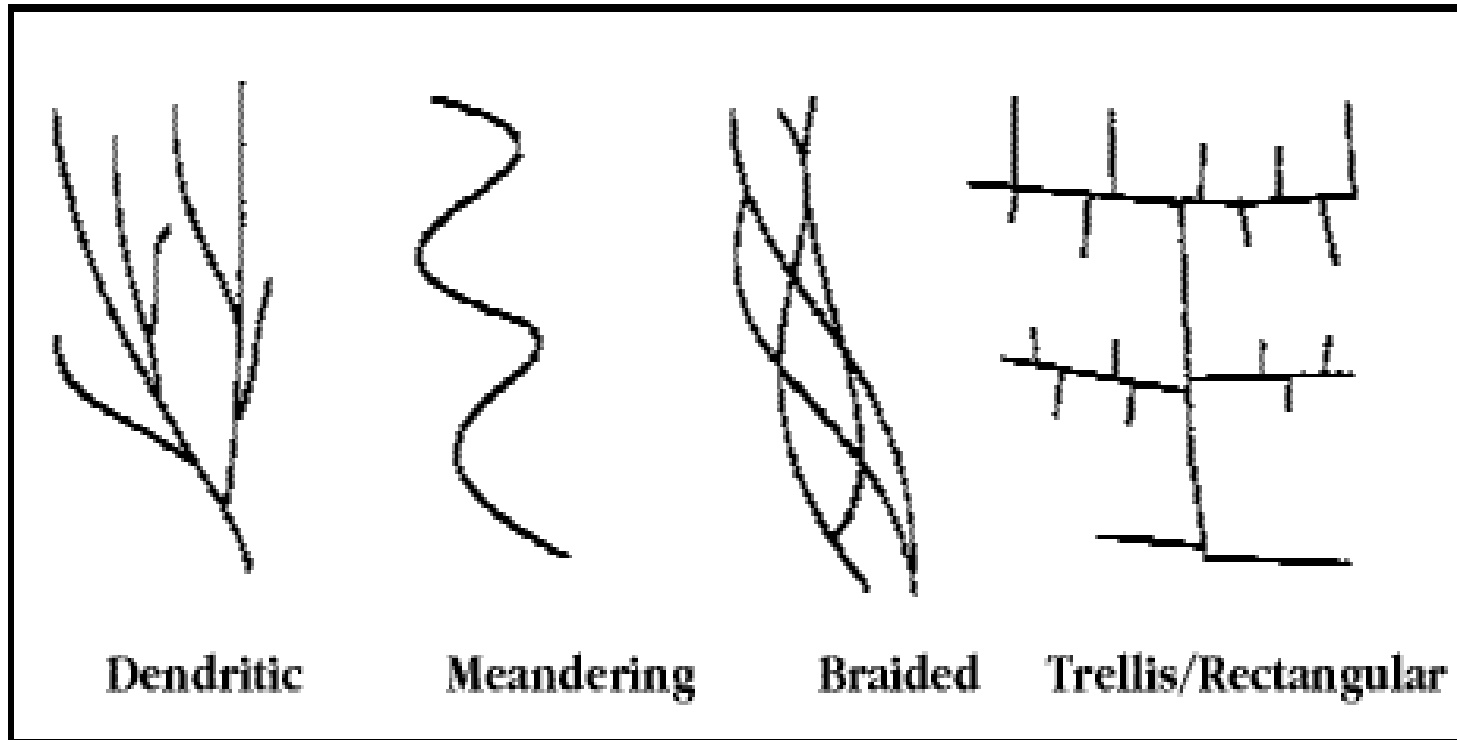# Learning Objectives:

- I can identify and interpret river flows and directions.

Bellringer Review:

Check for Understanding Questions:

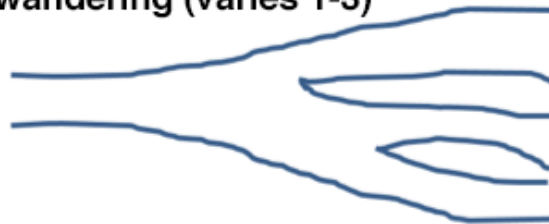Dendritic   Meandering   Braided   Trellis/Rectangular
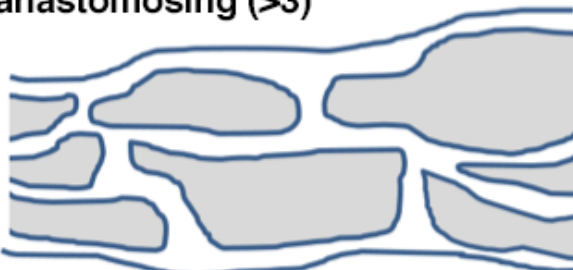
Number of channels

single

wandering (varies 1-3)

braided (>3)

anastomosing (>3)

discontinuous

Degree of Sinuosity

straight (1 to 1.05)

low sinuosity (1.06 to 1.3)
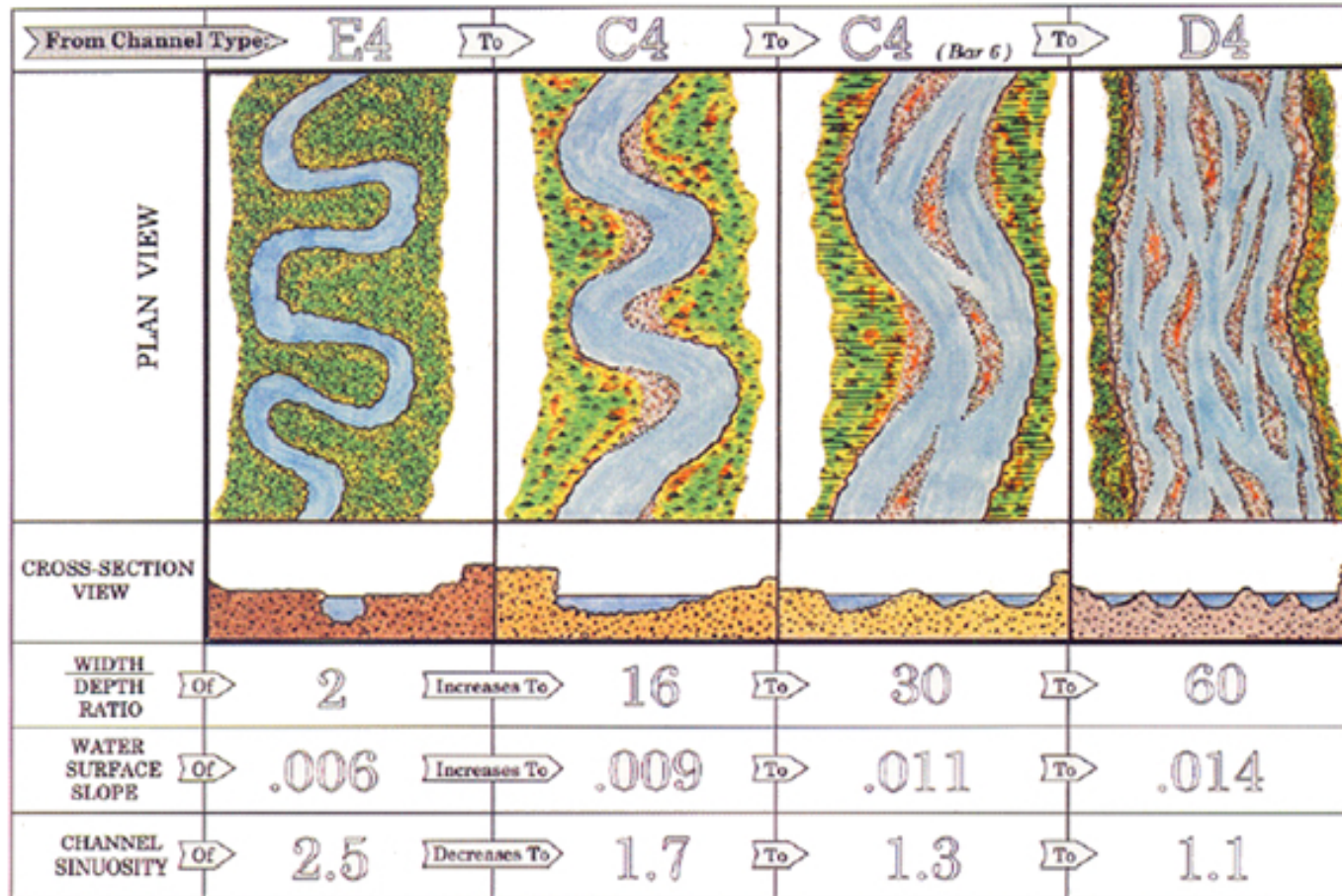
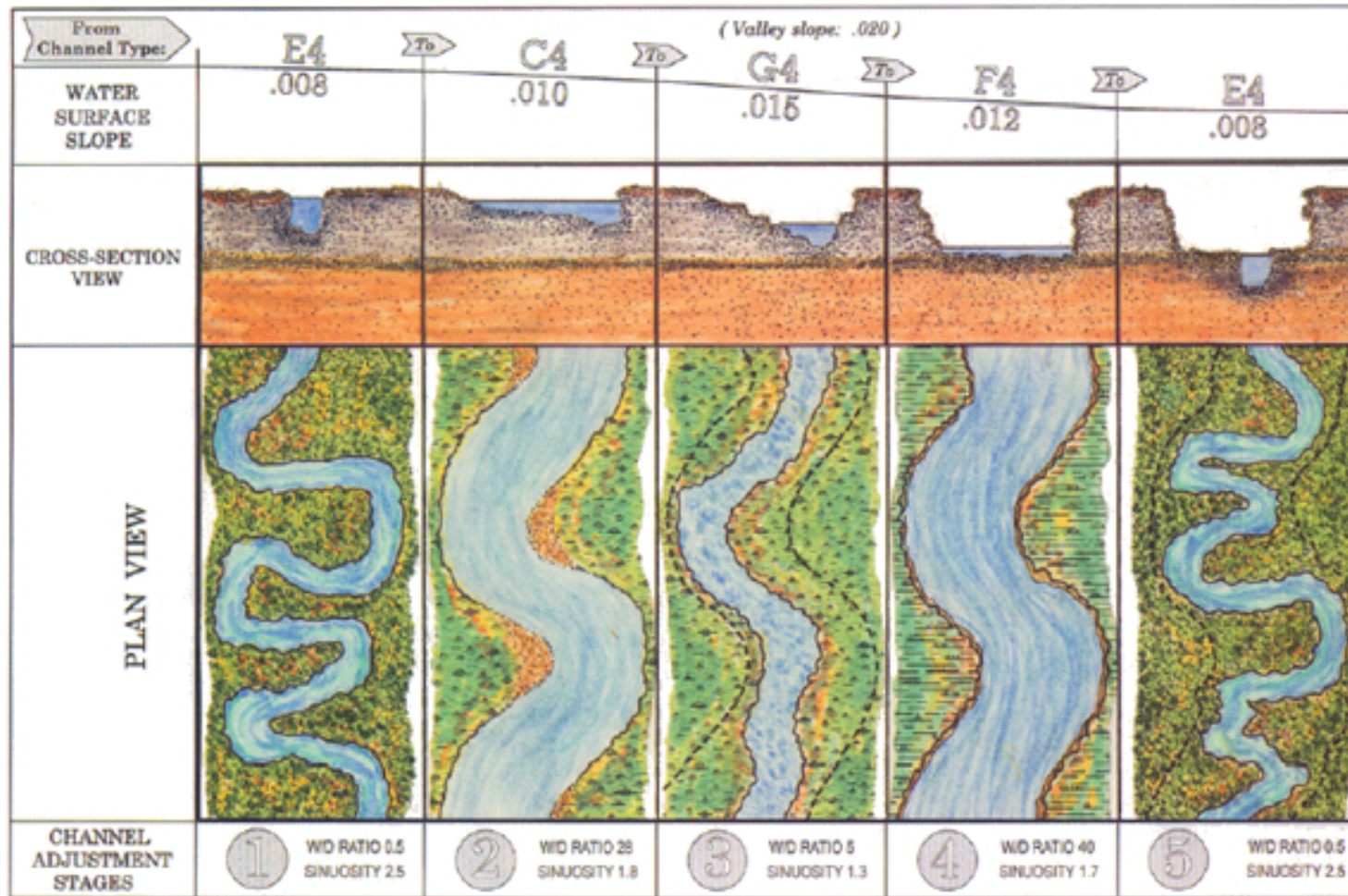sinuous (1.3 to 3)

Type of Sinuosity

regular

irregular

tortuous

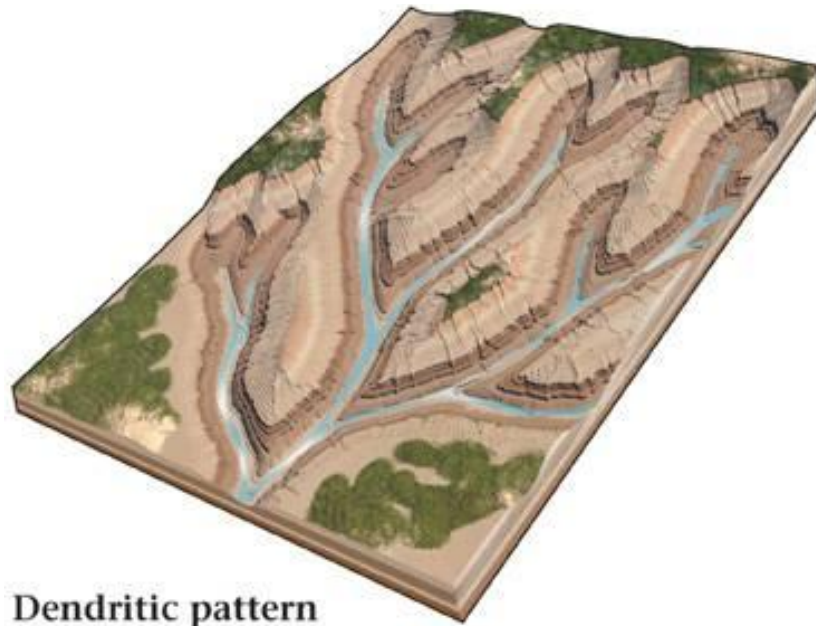| From Channel Type:	E4	To	C4	To	C4 (Bar 6)	To	D4
PLAN VIEW							
CROSS-SECTION VIEW							
WIDTH DEPTH RATIO Of	2	Increases To	16	To	30	To	60
WATER SURFACE SLOPE Of	.006	Increases To	.009	To	.011	To	.014
CHANNEL SINUOSITY Of	2.5	Decreases To	1.7	To	1.3	To	1.1

Example of Progressive stages of channel adjustment due to an imposed change in stream bank Stability
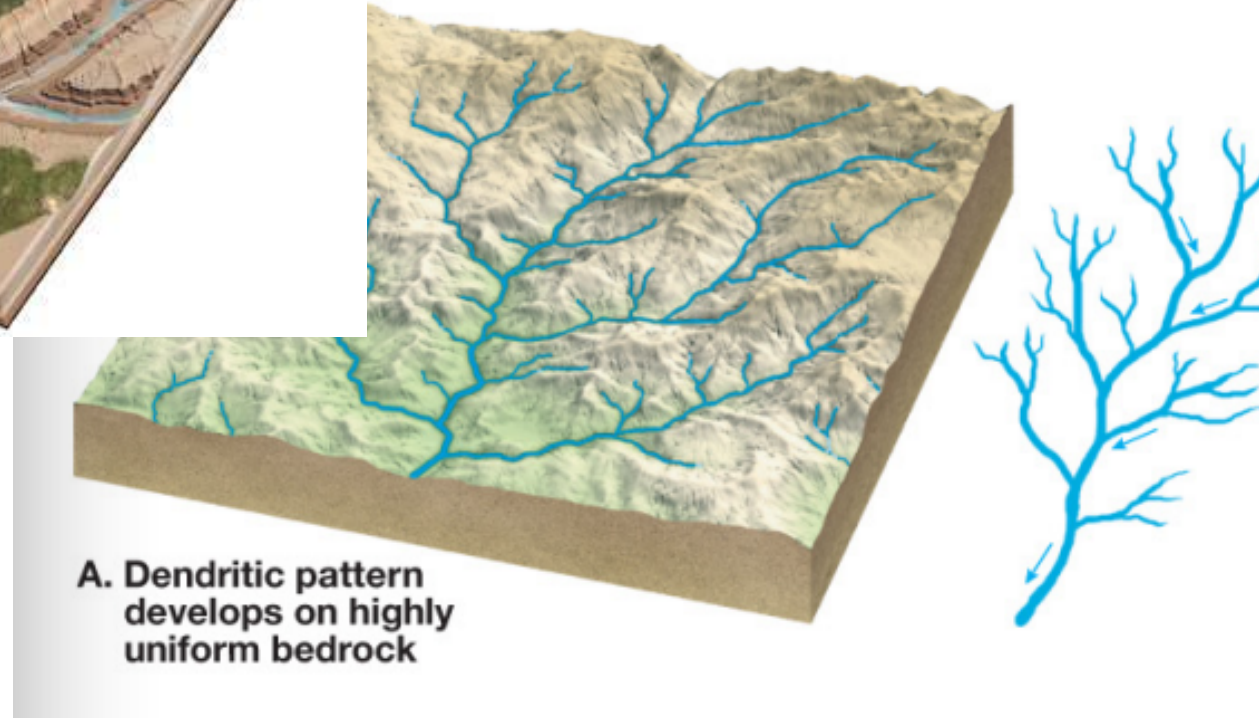(Rosgen 1996)

Adjustment of stream types in five progressive stages
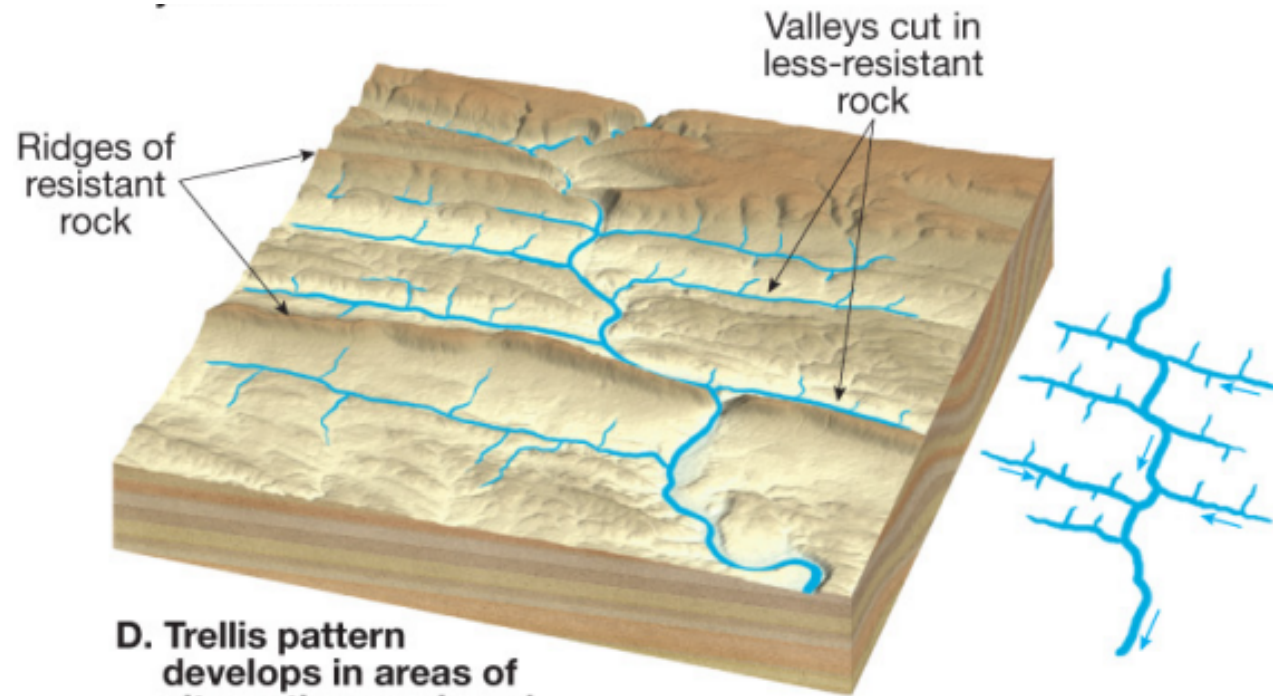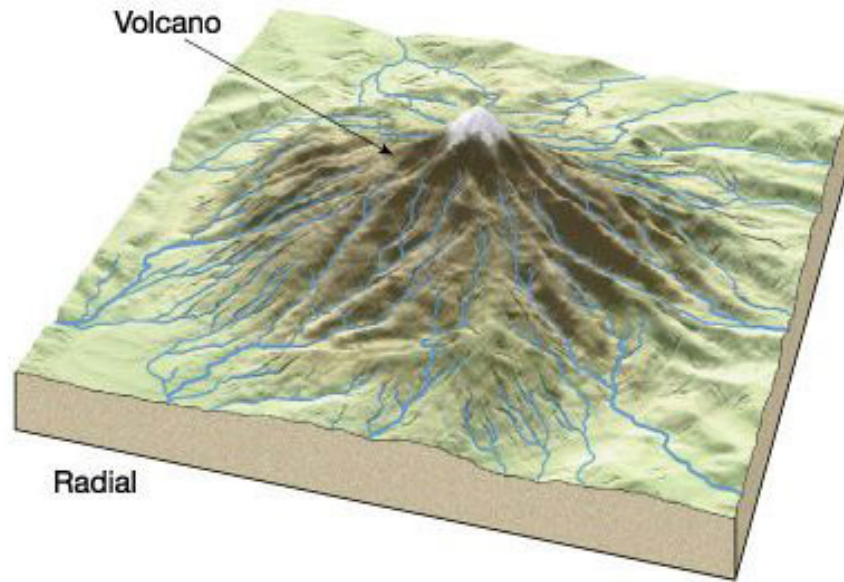(Rosgen 1996)

Dendritic pattern
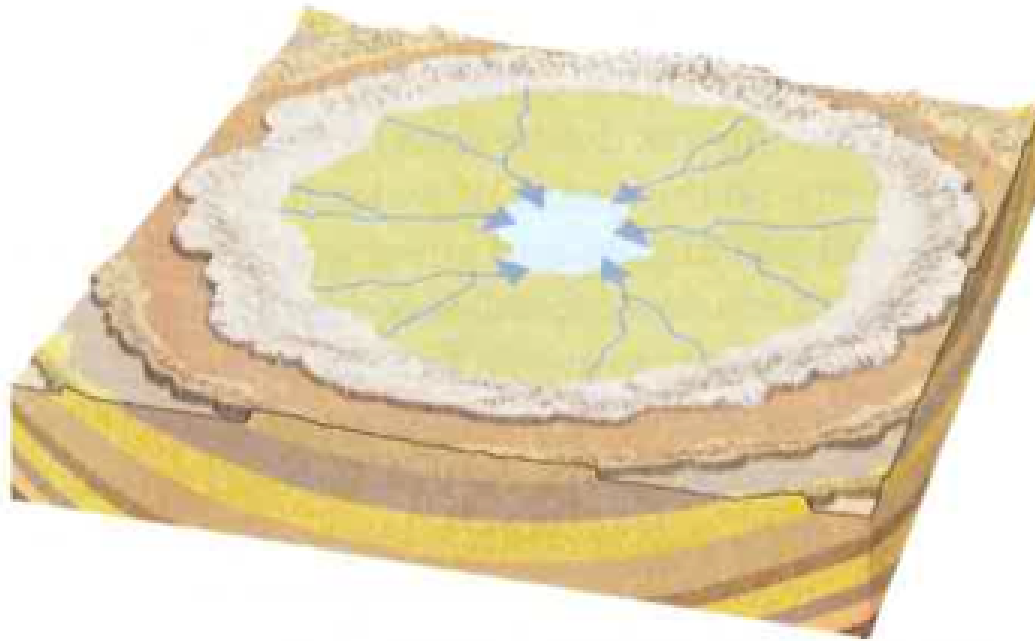
A. Dendritic pattern develops on highly uniform bedrock

Valleys cut in less-resistant rock

Ridges of resistant rock

D. Trellis pattern develops in areas of alternating weak and resistant bedrock

Radial: Centrifugal

Volcano

Radial

Centripetal: Channels converge on the lowest point in a closed basin from which water cannot drain.

Check for Understanding Questions:

Learning Objectives: Did you accomplish them?

- I can identify and interpret river flows and directions.

Self-Evaluation

- How well did you understand the material today?
  (1-Lost, 2- understand, 3-can teach it)
- How well did you and your team members participate in class?
  (1-didn't do anything, 2-Bare minimum, 3-fully participated)