**Science Olympiad**

**Fozendog’s Practice Test**

**Dynamic Planet**

**Test**

**Name the type of glacier shown in each picture:**

1. **This glacier can be classified as two types, name each one:**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ & \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. **This series of photos shows a glacier over 30 years. What type of glacier is this? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
2. **What type of glacier is this? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
3. **What type of glacier is this? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
4. **This is one of the only land masses that has these: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
5. **This is what type of glacier? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
6. **This is what type if glacier? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Name the glacier feature in each picture:**

1. **This is what glacier feature? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
2. **This is what glacier feature? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
3. **This climber is currently in what glacier feature? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
4. **This is what glacial feature? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
5. **This image illustrates the formation of what glacial feature? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
6. **The sides of this glacier show what glacial feature? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
7. **This is what glacial landform? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
8. **This is what glacial landform? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
9. **Name the glacial feature as well as this famous mountain: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
10. **Name this glacial feature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
11. **Name this glacial feature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
12. **Name each of the glacial features on diagram “19”:**

**A: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**B: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**C: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**D: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**E: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**F: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**G: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Name this glacial feature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Name this glacial feature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Name the glacial feature in the center of this picture: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Answer each question on the answer key:**

1. **The degree of ellipticity of Earth’s orbit around the sun is called:**
2. **Precession**
3. **Eccentricity**
4. **Ellipticality**
5. **Tilt**
6. **If a glacier is moving quickly over a short period of time then it is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ glacier**
7. **Rock**
8. **Valley**
9. **Falling**
10. **Surging**
11. **What feature forms when two glaciers merge together?**
12. **Crevasse**
13. **Horns**
14. **Medial Moraine**
15. **Arêtes**
16. **Glaciers contain how much of the Earth’s freshwater?**
17. **30%**
18. **36%**
19. **25%**
20. **33%**

**Fill in the blank space with the correct answer**

1. **In the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ snowfall is occurring all year round.**
2. **In the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ snowfall rarely occurs.**
3. **The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ separates the answer to question 19 and the answer to question 20.**
4. **All the material dropped by a glacier is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_**
5. **Glaciers erode the landscape by \_\_\_\_\_\_\_\_\_\_\_\_\_ & \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
6. **The stages from snow to ice are:**

**Snow**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Glacial Ice**

1. **The present epoch we are in now is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and the one before the present epoch is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ epoch.**
2. **In the epoch that lasted from the beginning of the Quarternary Period to the end of the last glaciation there were 4 different major ice ages. Name them: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, & \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
3. **Concerning the previous question, the oldest of these ice ages was the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ice age and the latest one was the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ice age.**
4. **The snow line at the equator is approximately \_\_\_\_\_\_\_\_\_\_\_ meters**

**Match each of these glacial features to the type of glacier that forms it:**

1. **Arêtes: \_\_\_\_\_\_**
2. **Truncated Spurs: \_\_\_\_\_\_**
3. **Continental Glaciers**
4. **Valley Glaciers**
5. **Both Valley and Glaciers**
6. **Kettles: \_\_\_\_\_**
7. **Eskers: \_\_\_\_\_\_**
8. **Drumlins: \_\_\_\_\_\_**
9. **Kames: \_\_\_\_\_\_**
10. **Cirques: \_\_\_\_\_\_**
11. **Horns: \_\_\_\_\_\_**
12. **Hanging Valleys: \_\_\_\_\_\_**
13. **Glacial Trough: \_\_\_\_\_\_**



C

B

Topographic Map

A

**Answer the following questions:**

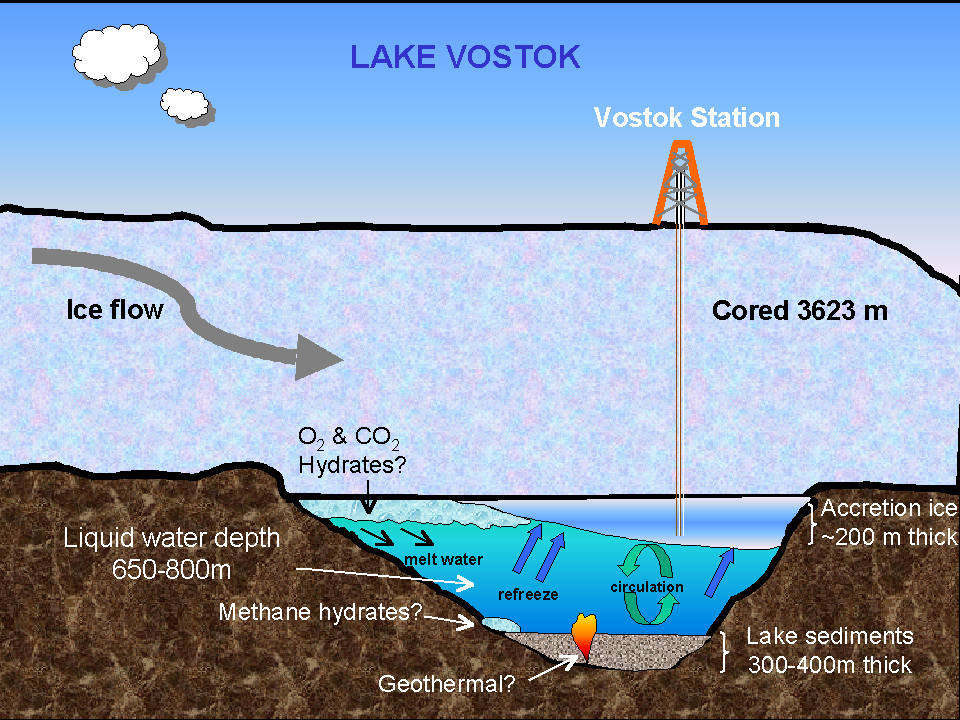
1. **Referring to the Topographic Map, what type of glacier is the Thompson glacier? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
2. **On the topographic map there is a circle with a letter A next to it. What glacial feature is in this circle? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
3. **On the topographic map there is a circle with a letter B next to it. What glacial feature is in this circle? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
4. **When the Wreck Glacier and the Thompson Glacier meet what will be formed in the middle? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
5. **What is the contour interval of this topographic map? \_\_\_\_\_ feet**
6. **On the topographic map there is a circle with a letter C next to it. What type of glacier is in this circle? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

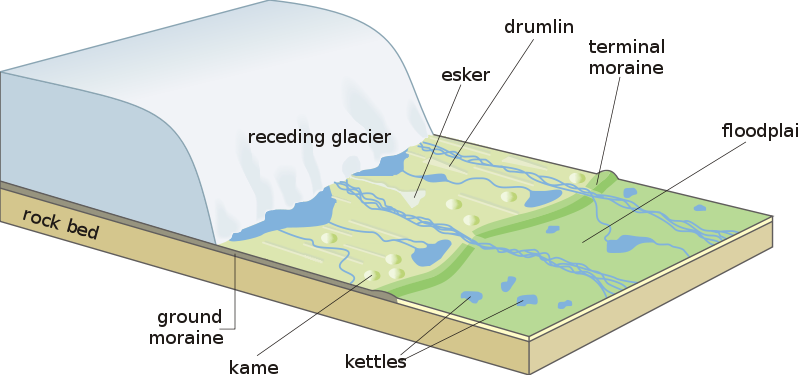


B

A

1. **Where is this famous mountain located? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
2. **On this topographic map there is a circle with a letter A next to it. What glacier feature is in this circle? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
3. **What is the glacier feature in circle B? \_\_\_\_\_\_\_\_\_\_\_\_\_\_**
4. **What is this diagram of? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**





G

F

E

D

C

B

A

1. **Identify each of the glacial features in the above diagram.**

**A: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**B: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**C: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**D: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**E: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**F:** **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**G:** **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**