

## Avalanche Web Quest Lab Form

Name(s):

Period:

Problem Questions (type hypotheses in boxes below each question):

- What are some of the variables that may cause a mountain slope to be ready to possibly avalanche?(list all that you think possible)
  
- Is it possible to predict an avalanche occurrence? How?
  
- What are some safety precautions humans can take while traveling and recreating in the back country?

### Research/Observation

Make observations on the thoughts that go through your mind as you watch the video. Think about causes, dangers, & similar natural events. Type all that apply and save your document.

### Conditions

National Forest Service Avalanche Awareness Center

List the three conditions necessary for an avalanche to occur. Include a short description in your own words. Type them here and save.

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Conditions continued:

National Forest Service Avalanche Awareness Center

Of the three factors you just listed research either "Terrain" or "Snowpack" from this site. Fill in the chart below with your info. Fill in the other using another group's research.

| Factor | Tools used in measuring | Techniques used for measuring |
|--------|-------------------------|-------------------------------|
|        |                         |                               |
|        |                         |                               |

Predicting Danger

Gallatin National Forest Avalanche Center

Current Avalanche Advisory (you may have to read through this page to get the answer). Include the date.

Danger \_\_\_\_\_ Date \_\_\_\_\_

Utah Avalanche Center

Explain in what level of the danger scale the most avalanche fatalities occur. Give an explanation of why you think this might be the case.

Safety and Being Prepared

American Avalanche Association Tutorial

Navigate through the tutorial to answer the questions below.

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1. \_\_\_\_\_% of avalanche victims are killed by a slide that themselves or a member of their party trigger.
2. After 35 minutes of being buried only \_\_\_\_\_% of avalanche victims will survive.
3. Windblown slopes, load \_\_\_\_\_ slopes even when it's not snowing.
4. Gravity and warm temperatures cause the snow to \_\_\_\_\_ downhill, making it unstable.
5. Any slope steeper than \_\_\_\_\_ degrees has a chance for an avalanche.
6. Explain what a terrain trap is and give an example.
7. Explain aspect:
8. List 4 ways to travel more safely within avalanche terrain.
9. Snowmobilers have to be especially careful when performing what maneuver?
10. When rescuing someone else, you only have \_\_\_\_\_ minutes for a good chance of recovering someone alive.
11. If you are caught in an avalanche what does the tutorial say is your best defense.

### Avalanche Air Bag

What do you think? Will it work? Do you have any better ideas?

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### Conclusion: Revisit your hypotheses

- *Accept or reject hypotheses and restate correct answers. Use knowledge you have gained as proof.*
  
  
  
  
  
  
  
  
  
  
- *Reflect on what you may have learned in this web quest and explain how this might change how you behave in the backcountry.*
  
  
  
  
  
  
  
  
  
  
- *Lastly, Review all of the information you have learned and explain what you would like to learn more about as it pertains to avalanches.*

Let's Play

High Score