

Materials for Avalanche Triangle Game

- You will need three envelopes. Label one “snowpack”, one “weather”, and one “terrain”
- Cut out slips and place them in their corresponding envelopes

Snowpack Envelope

The snow pack has a layer of depth hoar, or sugar snow, at the very bottom next to the ground

The snow pack consists of a thick layer of well consolidated snow, with a thin layer of ice on the top of it

The snow pack has a dense, wind loaded slab on top of a layer of unconsolidated loose powder

The snow pack has a dense wind packed layer on the bottom, with a stable, consolidated layer that has warmed gradually on top of it

The snowpack is one dense, well consolidated layer.

The snowpack has many layers. In the middle of the pack there is a layer of sugar snow under a dense, six inch slab of very hard snow. The layers on top of that are mostly light powdery snow.

Weather Envelope

It warmed up drastically over the last 24 hours – the temperature increased from 31 degrees to 50!

It has been extremely cold and windy for the last three days.

It has been hovering around 34 degrees, but warming up very gradually over the last week.

It has been dumping snow for 24 hours! Two feet of powder already up in the high country. It's cold (about 20 degrees!), but the sun just came out.

It's been steadily hovering around freezing with intermittent snow storms over the past two weeks.

It poured rain last night, and this morning it is 23 degrees

Terrain Envelope–

The slope is 35 degrees, and south facing

The slope is 50 degrees, with lots of closely spaced trees

The slope is windward facing, and North facing, with a slope of 40 degrees

The slope has lots of big boulders, and is North-East facing. It has a slope of 18 degrees.

The slope is 65 degrees – super steep!

The slope is North facing with a few scattered trees here and there. The slope angle is about 40 degrees.