## Internal Alps worksheet

This worksheet is to be used in conjunction with the virtual field excursion to the Internal Alps. Students can use this sheet to help answer the related MCQ. You are advised to enlarge this
MATTERHORN
After plotting a stereogram of the structural data you can sketch this on the template provided.

How do the deformation fabrics compare across the contact at the base of the Dent Blanche klippe?

What is the sense of shear implied by the photograph?

What is the relationship between the fold hinge lines and the stretching lineations?

Discuss the relationship between stretching lineation and fold hinge.

Discuss the nature and deformation state of the Combin metasediments Can you estimate the apprimate axial ratio and orientation of the apparent strain ellipse?

## COMPARISONS BETWEEN SITES

What is the angle between the location and shape fabric?

List the structures found in the three Internal Alps sites.


What is the value of shear strain implied for the deflection of the aplite branches?

What is the chief shearing direction found in the sites (is it broadly consistent)?

Which of the following terms best describe the deformation in the Internal Alps?
Lots of cataclasis and brittle faulting

Upright folds Open folds
Intense shear that has made different linear and different planar structures near parallel

Pressure solution
High values of distortional strain
recumbent and tight folds
Strong stretching lineations

## COMPARISONS BETWEEN INTERNAL AND EXTERNAL ZONES

Contrast the types of small-scale structures and the large-scale structural styles between the Internal and External Alps.

Sheath folds
Fault-bend folds

