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It is difficult to draw diagrams for 3-D models, and difficult to understand such diagrams. So, this is my first attempt to diagram with a digital camera - it may be an unfamiliar method, but I hope you will appreciate seeing the hand positions and shadows. BE CAREFUL ! There are 40 photos, only 16 of which show "reals" steps, as in a conventional set of diagrams. These steps are indicated by a BLACK number. The other 24 steps are "intermediary" steps, indicated by a GREY number AND a letter.

The basic idea of the model is economy. By this, I mean economy in the number of creases, and economy in the use of paper. This is best understood by looking at the crease pattern diagram on the right. The grey shading represents areas of paper hidden in the final model. The use of "rounded creases", "broken creases" and "tensioning" of the paper, means that your first attempts pro-bably won't be too perfect. You need to practice, testing different types and sizes of paper. When making 3-D models, choosing exactly the right paper is more difficult than the folding process itself. The measurements given in the instructions assume a paper size of 20 cm (8 inches) square.


Valley-fold a diagonal. Unfold.

2
BE CAREFUL! This special crimp is explained in 4 steps. First, pinch a short valley along the horizont ${ }^{\prime}$



Hold the paper about 1 cm
1 /?inl in from tho adno

2b
To make the crimp easily, put your left hand thumb and first finger on the ends of the short crease, then on the inside, press down with your right hand thumb,



3b
This is the result. Turn over.

Make rounded "mountains and "valleys" as shown. Use your thumbs on the front to create the valleys, and first fingers behind


## 5



5 and 5a
This is the second important crimp, but more conventiona
than the firs
than the first.
The result is shown

5b
Before you flatten this inside reverse fold, look at step 5 c.


5c
INSIDE VIEW. Adjust the position of the flat triangle so that it is centrally placed between the mountain creases,



THE NOSE.
First, create short horizontal mountain and valley creases, as shown. Turn over.

Place your first finger


6b
The special secret weapon is a MASK MACHINE (please, don't tell anyone about it !). It's a very sophisticated chop-stick, or something similar. Simultaneously push down with the stick on the front, and inside with your first finger. This creates the two nostrils and the crimp in the upper lip.
 begin about 1 cm (1/2in) below the mouth.

 of the rounded mountain made before, so that it touches the cheek.

11


These 2 new broken creases create tensions that press the cheek layers together. Narrow the mask by folding the left and right corners behind, as shown.

First create rounded mountains (step 12a), then create ears by making valleys (step 12b).



13a
The pleat in progress.


14
Make the same lock as for the chin, turkinn the corner right inside



The mask completed.
The first few times that you make this model, you'll try to make it symmetrically, as though proving to yourself that you can control the paper. But in fact, a symmetrical mask looks "dead". So, practise, and enjoy...

Tested during 31.12.1999, by Claudine, Giusepina, Patricia, Ulla and Thoki. Great thanks to them, and a special one to Paul for his translation.

