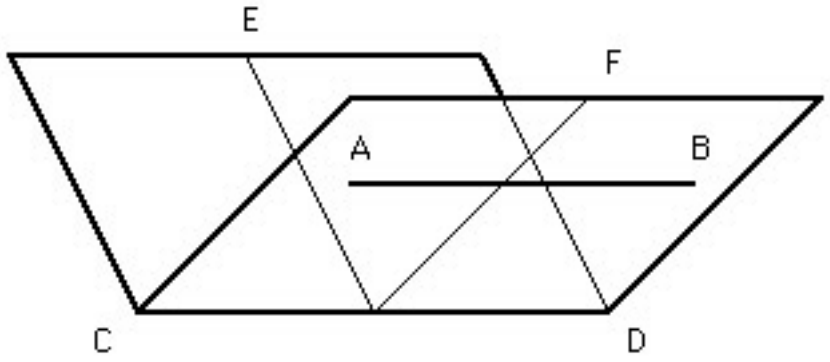
Paper Folding Geometry

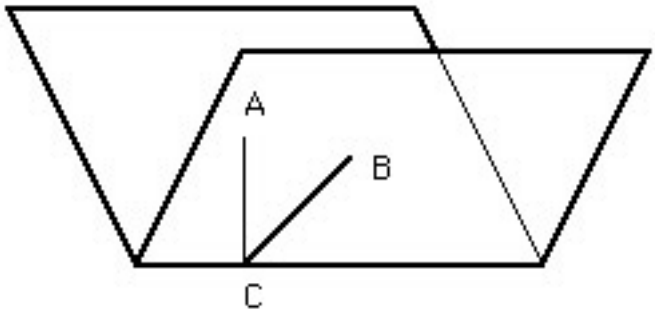
Activity 3. A parallel line to a given straight line

- Construct EF perpendicular to AB, and then construct CD perpendicular to EF.
  What can you say about AB and CD?



Activity 4. Bisect an angle

- Trace an angle ACB (that is the vertex of the angle is at C).
- Fold and crease the paper so that the legs CA and CB of the given angle coincide on top of each other.
- Open the paper and look at the two smaller angles formed.
  What can you say about them?



Other activities folding paper.

Activity 5. The midpoint of the hypotenuse

- Cut a right triangle (a triangle with a 90° angle).
- Find the midpoint of the largest side (this side is called the hypotenuse).
- Show by folding the triangle that the midpoint of the hypotenuse of a right triangle is at the same distance from all vertices.