



Turkish Map Fold

The Turkish Map Fold is a unique and sculptural book form made from a single piece of paper, with an optional cover. As you open the book, the piece of paper unfolds entirely so you can see the entire sheet. This book is great to use for a reference worksheet, as it folds down nicely and opens up in an unexpected way.

Grades/Age Group: K-12

Approximate Time Required:

Prep: 30 minutes

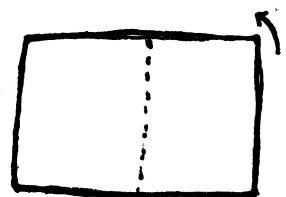
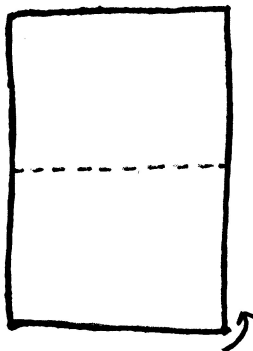
Teaching: 20 minutes

Materials needed (sizes can be scaled as desired for your class project needs):

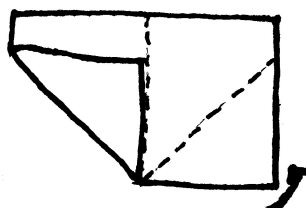
1. 8 1/2" x 11" text weight paper (1 per person)
2. 4 3/8" x 11" cover weight paper (1 per person)
3. Glue stick

Procedure:

1. Start with your 8 1/2" x 11" text weight paper and fold it in half widthwise (hamburger fold). Keep it folded, fold in half again. Now unfold so you just have a half sheet of paper folded.

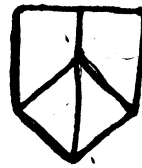
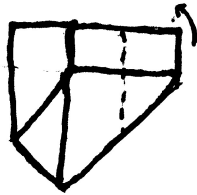


2. From the folded edge, bring up both of the corners to meet match up with the center fold.

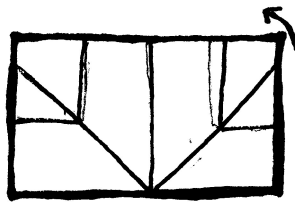




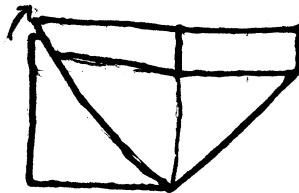
3. Keeping everything folded, bring in the edges to match up with the center fold.



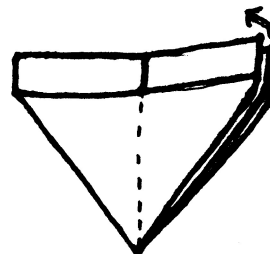
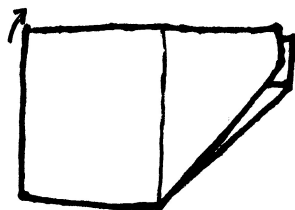
4. Now unfold the folds you did in steps 2-3 to end up with a half sheet that looks like this (lines indicate where fold lines are):



5. Pick up the top corner of the top flap of paper, as noted in the illustration above, and bring the corner over to the opposite corner. Fold down. You will end up with a triangle shape like the image below:

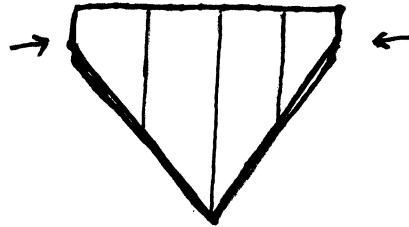


6. Now pick up the corner you just brought over, and fold it back, keeping that triangle shape. Do the same on the opposite side as indicated by the first image below. You will end up with a triangle shape like the second image, with three flaps on one side, and one flap on the other.

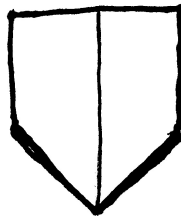




7. Bring over the top flap from the side with three flaps so you end up with a shape like the image below. At this point, you will push in each of the four corners, reversing the diagonal fold and tucking into the middle.



8. This is the shape you will end up with when the book is folded.



9. To add a cover, fold the cover paper in half widthwise. Glue out the inside of your folded cover paper. The point of your Turkish map fold fits into the crease of your cover. Line up the top and the bottom, then press down to adhere.



Turkish Map Fold – Lesson Overview:

Key Points:

1. Any worksheet can be folded down into a Turkish map fold for reference.

Ideas for Innovation:

2. Students can create the content themselves or fill out a worksheet.
3. Multiple Turkish map folds can be glued back to back to form a carousel of sheets.

Learning Objectives:

1. Students will increase their dexterity skills by folding cutting and gluing accurately.
2. Students will explore new ways to interact with what they're learning.
3. Students will have foundational skills for making simple books on their own.

Core Standard Applications:

Math:

4th grade. Objective: Use the four operations with whole numbers to solve problems. Make a worksheet that outlines the order of operations and have students fold into a Turkish map fold for reference.

8th grade. Objective: Understand and Apply the Pythagorean Theorem. Have a reference worksheet with information about the Pythagorean Theorem and have students fold into a Turkish map fold for reference.

Science:

2nd grade science. Objective: Analyze objects and record their properties. Application: Have a premade grid made on a piece of paper. Have students draw and write information about different non-living objects and their properties. Fold down into a Turkish map fold. A companion book can be made with the properties of living creatures and their properties.

7th grade Biology. Objective: Students will understand that the organs in an organism are made of cells that have structures and perform specific life functions. Application: Have students make a Turkish map fold with the different parts of the cell and their functions listed.

Language Arts:

3rd grade. Objective: Write narratives to develop real or imagined experiences or events using effective technique, well-chosen details and well-structured event sequences. Application: Have students write a short narrative poem and illustration on a single sheet of paper and fold down into a Turkish map fold.

9-12th grade. Objective: Determine the meaning of words and phrases as they are used in the text, including figurative and connotative meanings. Application: Make a



worksheet that compares figurative and connotative language and have students fold into a Turkish map fold for reference.

Social Studies:

Kindergarten. Objective: Students will use geographic terms and tools. Have students draw a map of their classroom or playground using geographic terms and tools. Have students fold down their drawing into a Turkish map fold.

9-12th grade. Objective: Students will understand the significance and impact of the Constitution on everyday life. Have students fold down a copy of the Constitution into a Turkish map fold. This way they can carry it in their pockets and reference it during lessons and daily life.