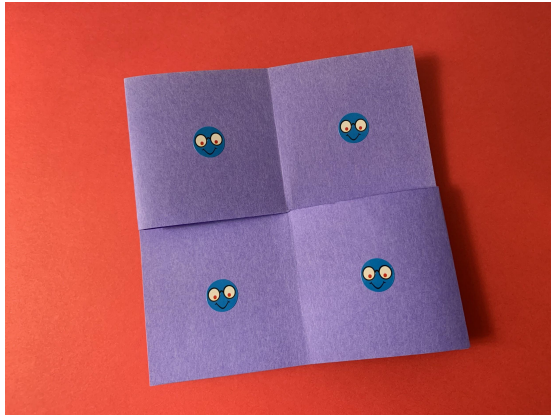


# MAGIC SQUARE

GRADES PREK+



## MATERIALS

- Paper
- Scissors
- Marker, crayons, or stickers



## OBSERVE

Allow children to observe how the Magic Square rotates through its center point and reveals new layers.



## CREATE

Use the materials from the list above and the tutorial video link below to create a Magic Square.



## PLAY

After creating the Magic Square, have children rotate the layers and try to predict what layer will come next.

## KEY CONCEPTS

- **Geometry**  
Fold to create a set of congruent squares, layers, rotation, and patterns.
- **Engineering**  
Follow a set of instructions and consider how a design meets a desired purpose..
- **Algebraic Thinking**  
Recognize arrays, proportions and patterns.

## QUESTIONS TO ASK

- What shapes do you see in the Magic Square?
- Have you seen something like this before?
- What surprised you about the Magic Square?
- What patterns do you notice?
- Where do you see fractions in this model?

## THINGS TO NOTICE

- How do they react when they see the layers revealed for the first time?
- What words do children use to describe what they are seeing?
- What shapes and fractions does the child recognize?
- Do they make any connections with something they have seen before?
- Are they able to discover a pattern in the layers?

## RESOURCES

- [Tutorial Video](#)
- [Hexaflexagon Video](#)