

FEARFUL SYMMETRY

CASCADE PACIFIC COUNCIL

FEARFUL SYMMETRY

SYMMETRY IS ALL AROUND YOU!

TODAY'S AGENDA:

- REFLECTIONAL, ROTATIONAL AND TRANSLATIONAL SYMMETRY
- DIFFERENCE BETWEEN SYMMETRY OF A GERANIUM AND A PERIWINKLE
- REFLECTIONAL SYMMETRY ART PROJECT
- KOLAM ARTWORK







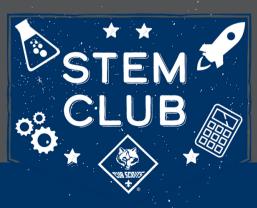






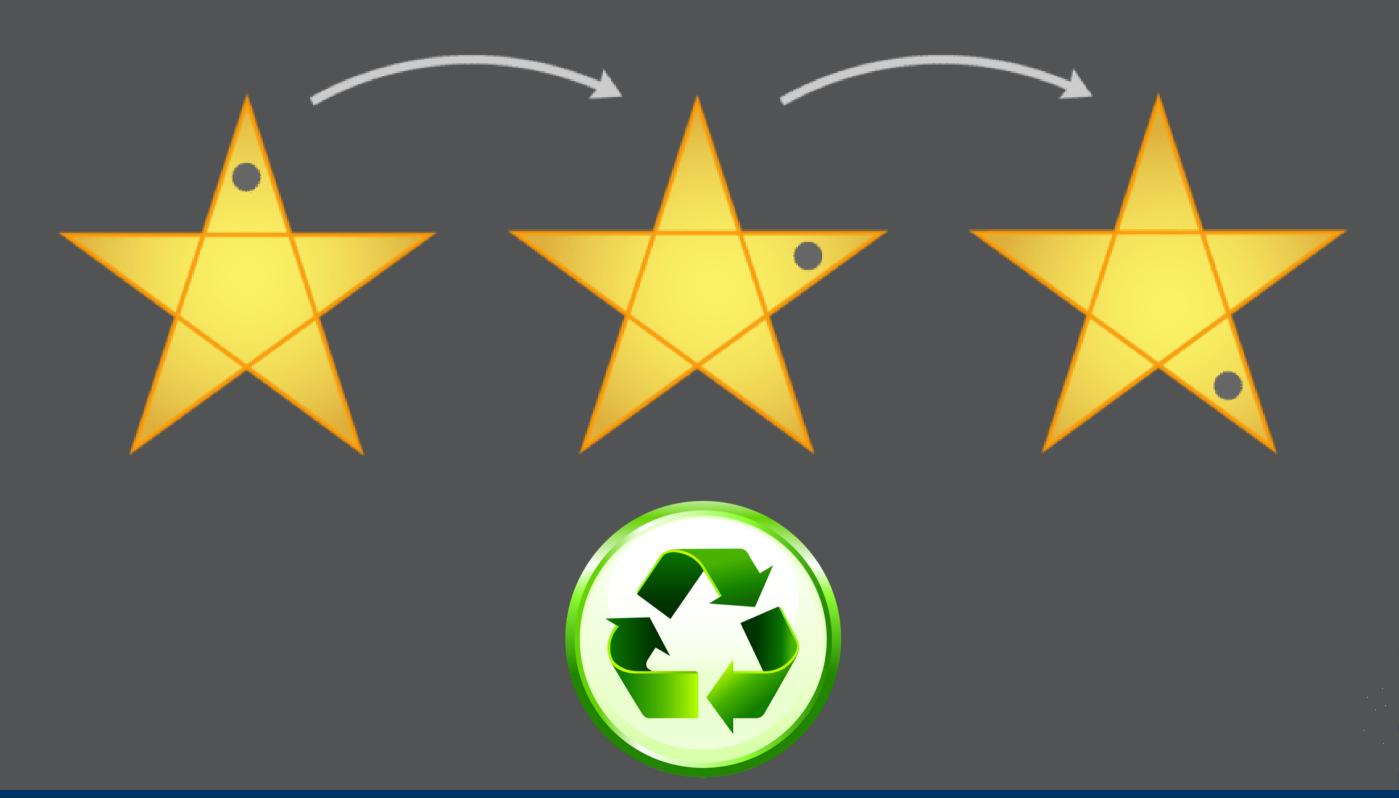


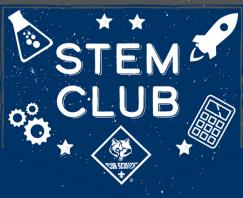
REFLECTIONAL SYMMETRY



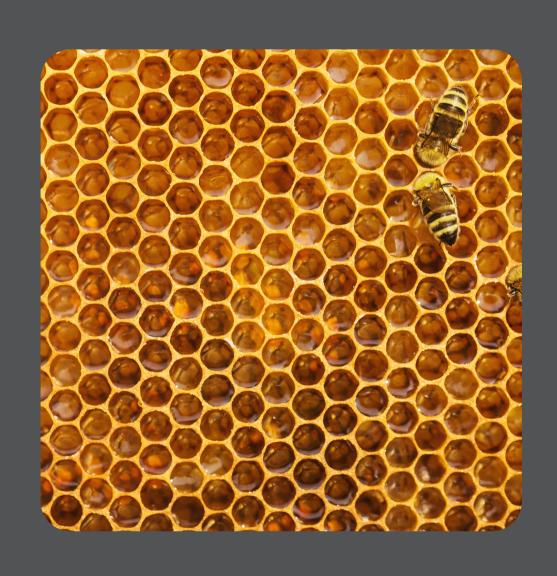
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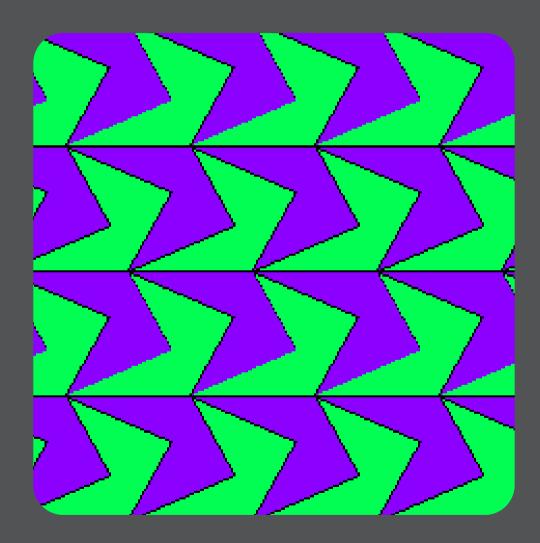
ROTATIONAL SYMMETRY



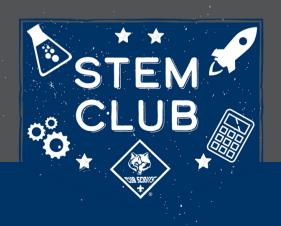


TRANSLATIONAL SYMETRY









SYMMETRY DIFFERENCES

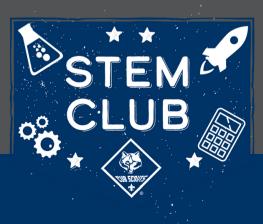
OF PLANTS



GERANIUM

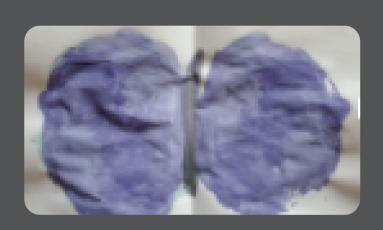


HERBACEOUS PERIWINKLE



SYMMETRY ART

GATHER YOUR SUPPLIES

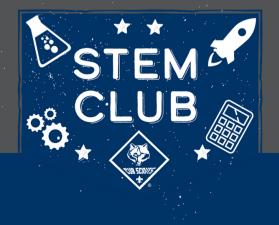


- PAPER
- PAINT (3-5 COLORS)
- PAINTBRUSH









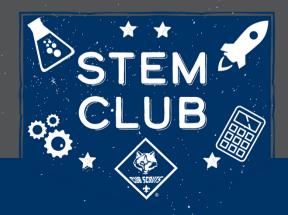
BILATERAL SYMMETRY

- BILATERAL SYMMETRY IS FOUND IN SOME ANIMALS.
- ANIMALS FOCUSED ON MOVEMENT GENERALLY HAVE BILATERAL SYMMETRY
- BILATERAL SYMMETRY MEANS BOTH SIDES ARE THE SAME



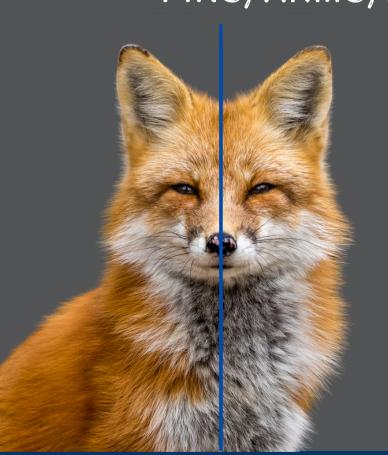




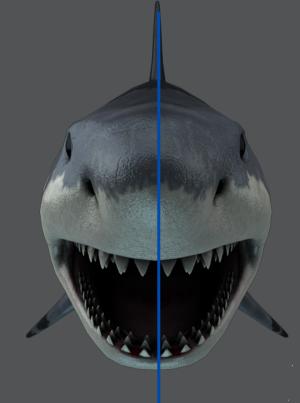


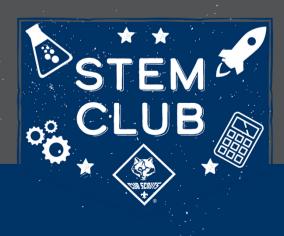
BILATERAL SYMMETRY

- ANIMALS WITH BILATERAL SYMMETRY HAVE SIMILAR CHARACTERISTICS
 - THEIR MOUTH, EYES, AND OTHER SENSORY ORGANS ARE USUALLY GROUPED TOGETHER
 IN ONE AREA
 - HAVING A HEAD MEANS THAT THEY HAVE A "FRONT" AND A "BACK" OF THEIR BODY
 - THIS HELPS WITH THE BEST PLACEMENT FOR OTHER PARTS OF THE BODY. LIKE WINGS, FINS, ARMS, AND LEGS



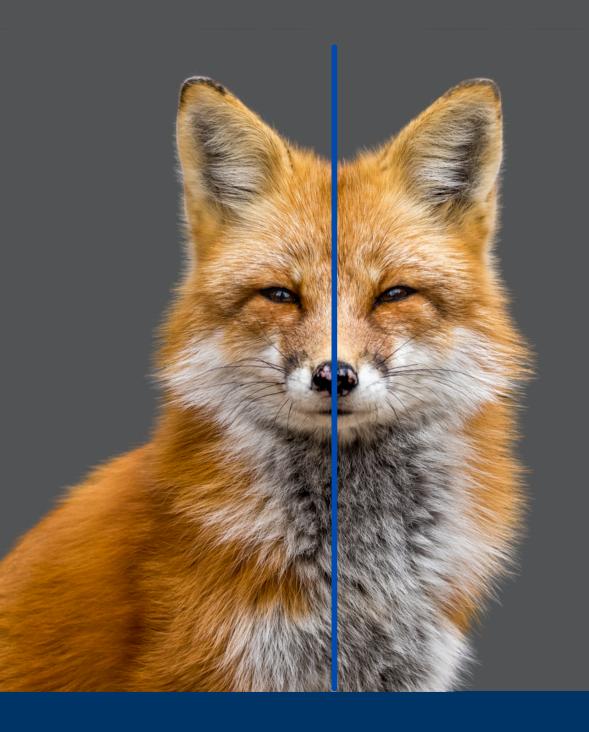




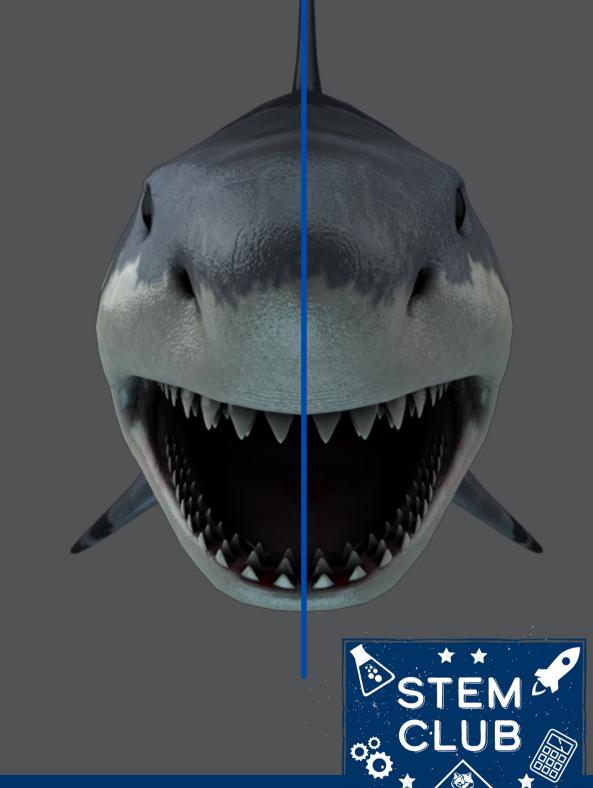


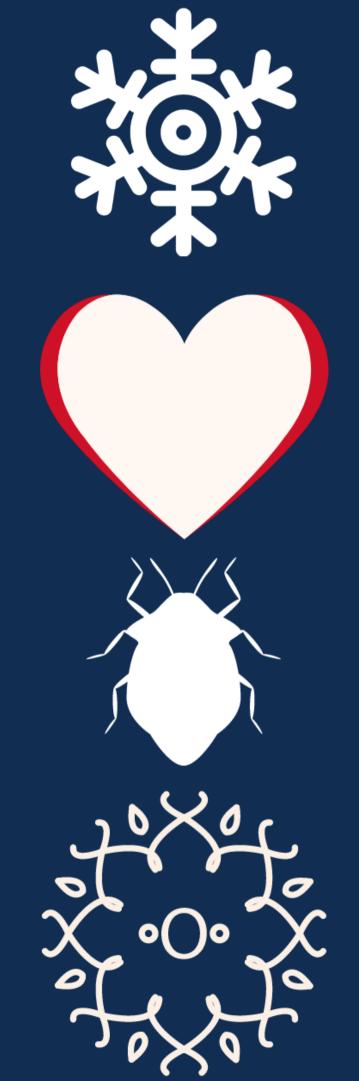
EXAMPLES OF BILATERAL

SYMMETRY









WEEK 7 STEM CLUB NOTES FEARFUL SYMMETRY

TOPIC COVERED:

FURTHER QUESTIONS:

- Reflectional, Rotational, Translational, and Bilateral Symmetry
- Symmetry Difference of a Geranium and Periwinkle
- Reflectional Symmetry Artwork

MAIN TAKEAWAYS:

ADDITIONAL NOTES:

- Learn the difference of a sweetgum tree and a maple tree leaf arrangement
- Learn about the art form of Rangoli or Kolam and then create your own art piece

LEARN MORE BY READING OR WATCHING: