

Math and Science Summer Learning

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Objective

- We will share ideas you can use to continue learning and discussion around science and math concepts during the summer break.



Nature Walks

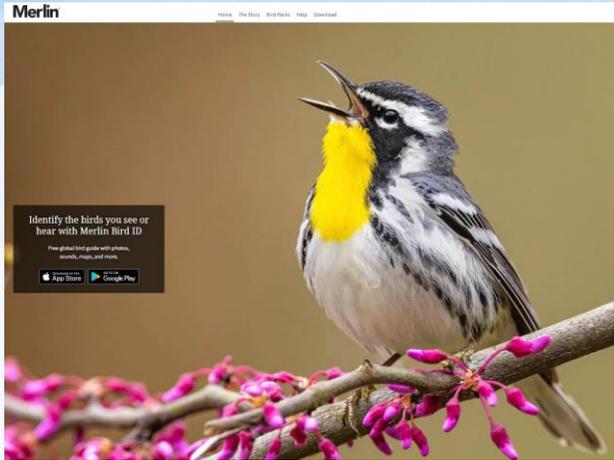




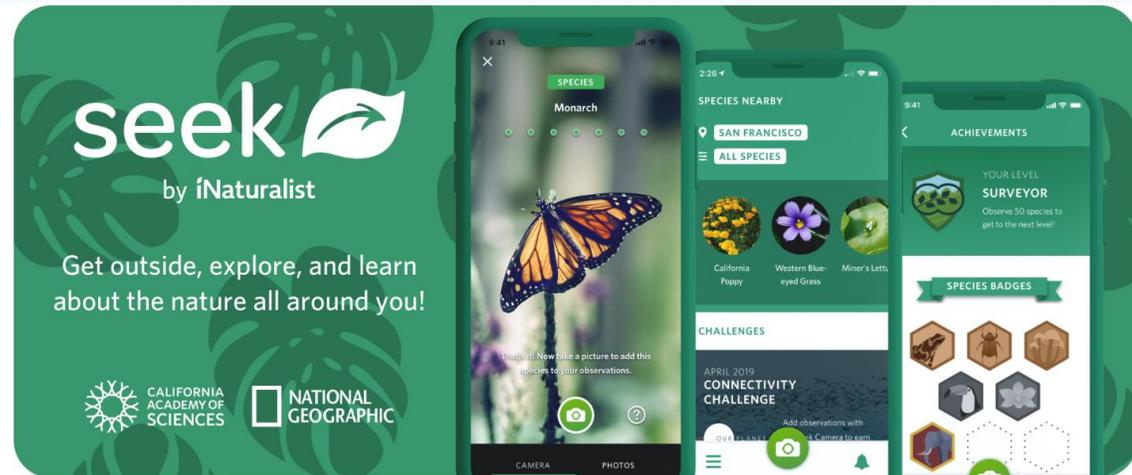
Virtual Nature Walk

Grab a piece of paper and some things to write with.

Nature Walk Apps



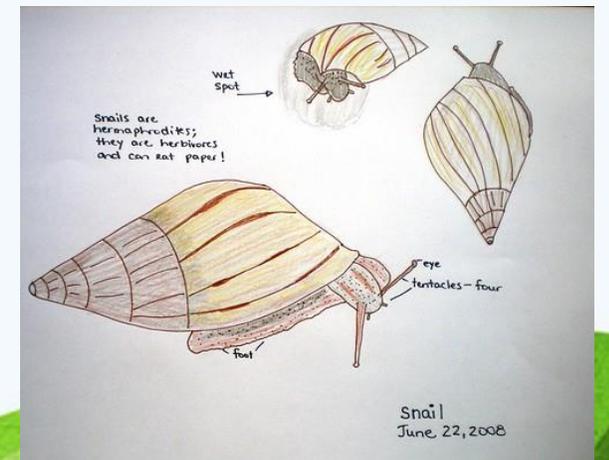
- *Merlin- Bird Call App*
 - *Use to identify birds through observations and song calls.*
 - *Includes further information about the birds it identifies*
- *Seek by iNaturalist- Scavenger Hunt and Nature Challenges*
 - *Earn badges for completing different achievements*
 - *Use to identify birds, plants, insects, lizards, animals, etc.*



Animal Encounters



- Use words, pictures, and numbers to describe the appearance and behavior of the animal using words to capture what is difficult to draw quickly.
- Because the animal will move, start several drawings and work on one whenever the animal assumes that pose.



How Many?

9 birds (5 + 4)



4 lily pads

Hidden Figures



How many bugs?

How many instars? (age/size)

How many bugs in each stage of development?

Can you group the bugs by color?

How many bugs are there of each color?

How many bugs are in each color group?

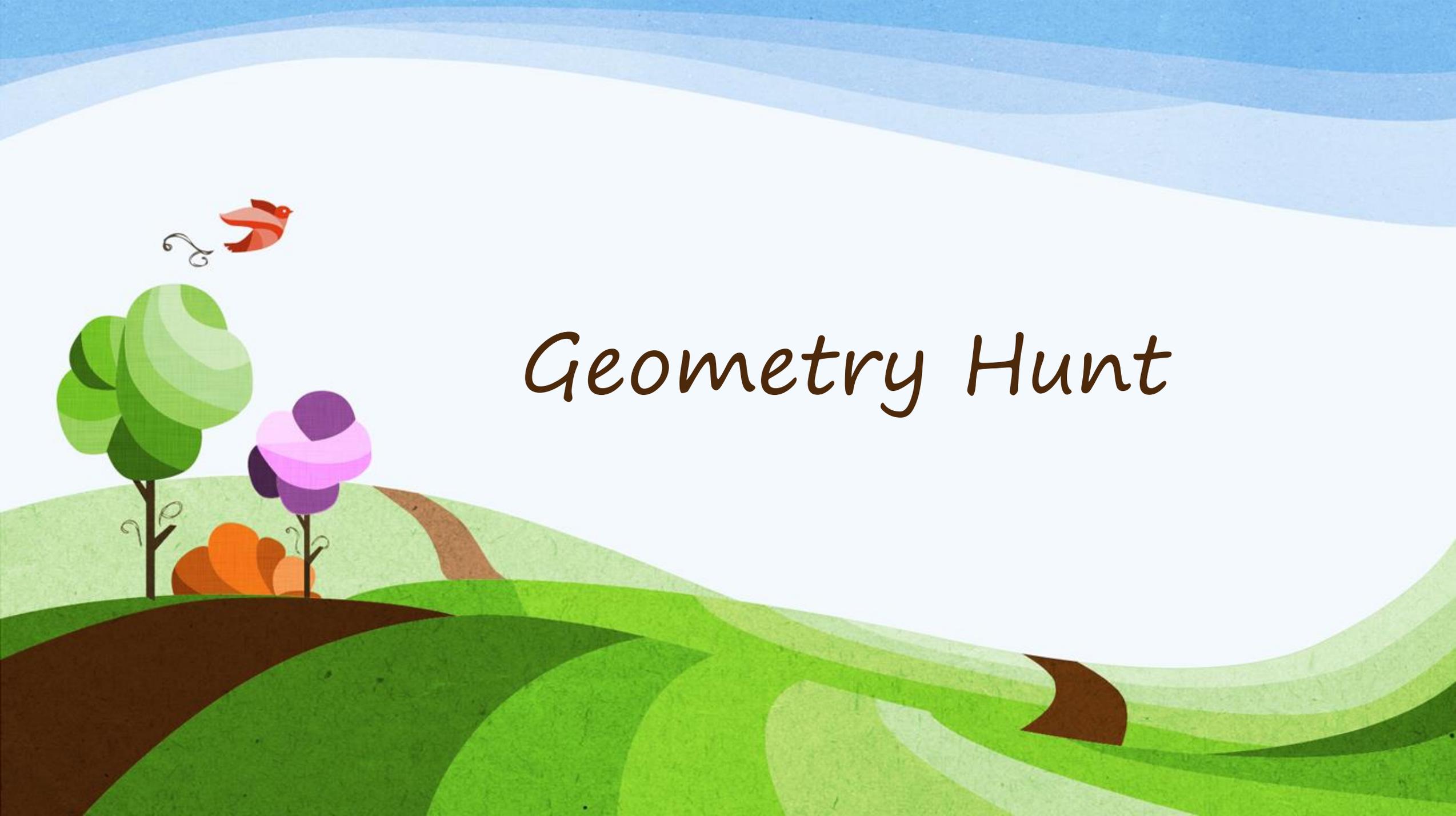
How many legs on each bug?

How many legs are there altogether?



How Many Resources

Ntimages.weebly.com



Geometry Hunt

Look around. Can you see..?

Lines

Arrays

Equal Groups

Circles

Patterns

Quadrilaterals

Squares

Numbers

Cubes

Spheres

Units

Symmetry

Lines



- Which lines are parallel?
- Where can we find perpendicular lines?
- Which are lines and which are line segments?

Arrays



- How could we count these? Is there a more efficient way?
- What would happen if we had 2 of these?

Patterns



Equal Groups



Squares



Bio Hunt

Go outside and find at least one biofact to bring inside.

Nature
overcoming
human
activity



Evidence of
a natural
cycle



Plant/Tree
material

Something
you can eat



Something
that flies

Biofact Stories

Grab your biofact from earlier today and use it to create a "Bio creature"

Questions to think about as you create:

- What might be the origin story for this creature?
- What might be their powers or challenges?
- Who might they be friends with?
- How do they use their natural element?

What story could you tell about this creature?



Outdoor Bingo

Mass Audubon
SUMMER BINGO

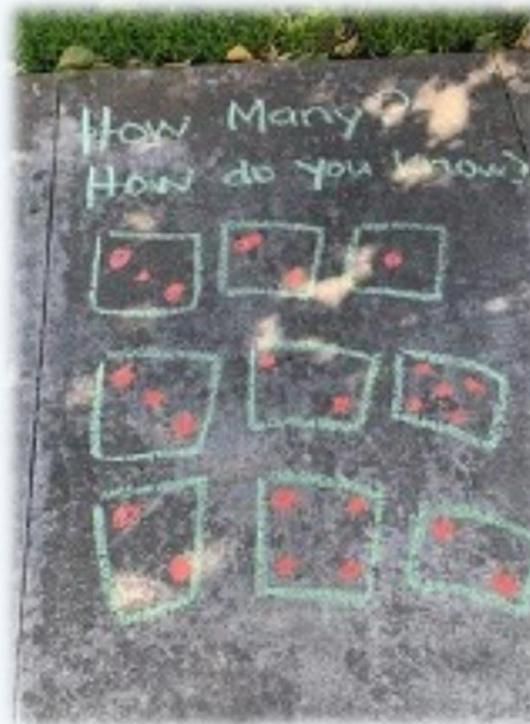
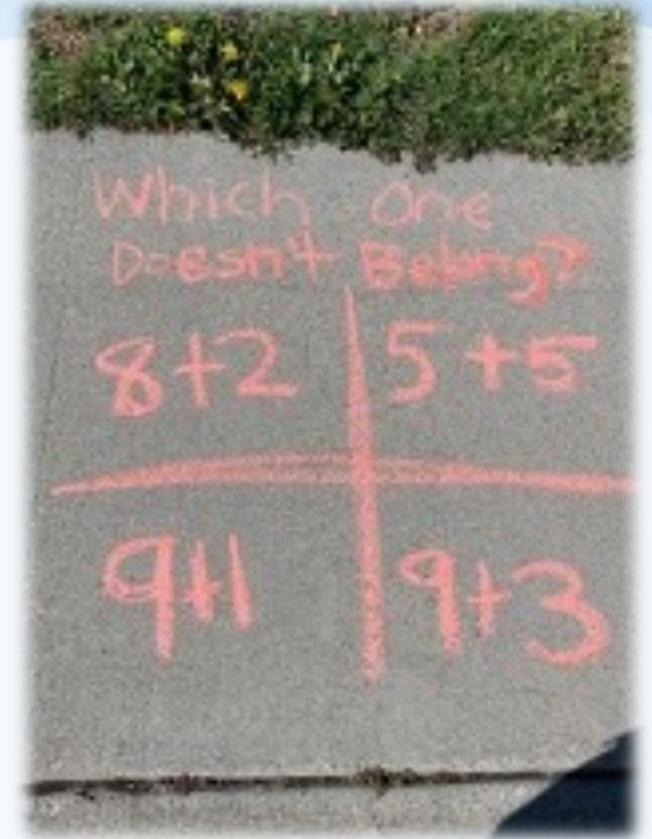
 frog or toad	 evergreen trees	 flying bird	 beetle	 bird feather
 flock of birds	 signs of a woodpecker	 purple flower	 perching bird	 berries
 bird song	 ferns	Free Space	 pine cone	 butterfly
 y-shaped twig	 bird nest	 leaf with holes	 mushroom	 spider web
 trail marker	 flying insect	 multi-colored rock	 maple leaf	 turtle

Mass Audubon
BINGO DE VERANO

 rana o sapo	 árboles siempre verdes	 ave volando	 escarabajo	 pluma de ave
 bandada de aves	 señas de pájaro carpintero	 flor morada	 ave perchada	 bayas
 canto de ave	 helechos	espacio libre	 cono de pino	 mariposa
 ramita con forma de i griega	 nido de ave	 hoja con agujeros	 hongo	 telaraña
 marcador de sendero	 insect volando	 roca multicolor	 hoja de arce	 tortuga

English and Spanish Versions: <https://www.massaudubon.org/learn/families-with-children/nature-play-days/nature-bingo>

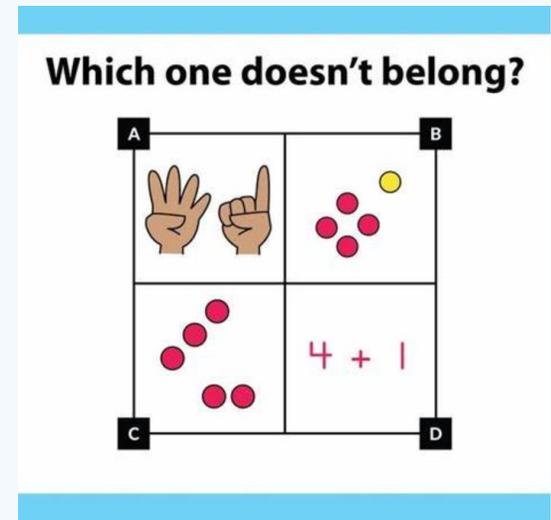
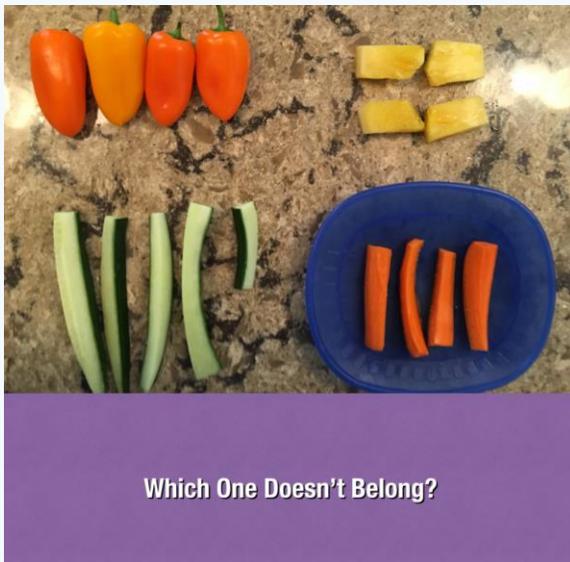
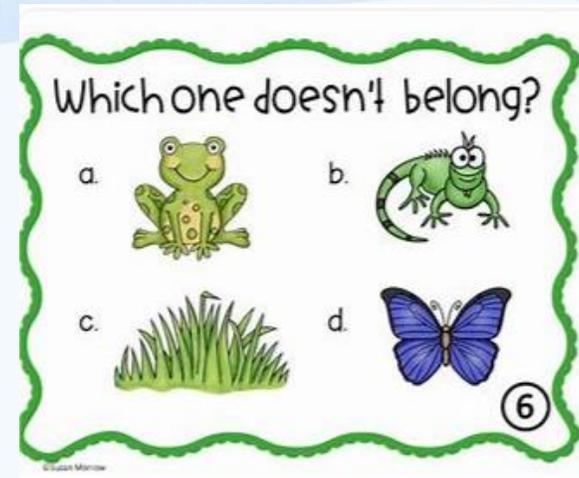
Sidewalk Math



[UCLAMP: Math at Home](#)

Resources

- Math before Bed
- Which One Doesn't Belong?





*Which one
doesn't belong?*



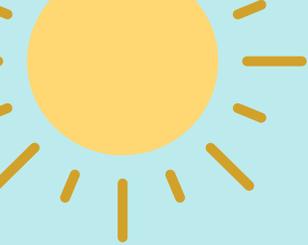
Thank you!

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KEEP LEARNING GOING: RESOURCES

NATURE WALK APPS

- Merlin Bird Call App
- Seek by iNaturalist

HOW MANY IMAGES

- <http://ntimages.weebly.com>

OUTDOOR BINGO

- <https://www.massaudubon.org/learn/families-with-children/nature-play-days/nature-bingo>

SIDEWALK MATH

- [UCLAMP: Math at Home](#)

MATH TALKS

- mathbeforebed.com
- wodb.ca

