Math and Science Summer Learning

Alison Williams – Math Coordinator CVESD
Marlys Williamson – Science Coordinator CVESD
Objective

• We will share ideas you can use to continue learning and discussion around science and math concepts during the summer break.
Nature Walks
Nature Walks with Nature Journaling

• Supplies: Pencil and blank paper. Optional: color pencils, crayons, markers

• build a child’s creativity and curiosity.

• sharpen a child’s observation and critical thinking skills.

• Use pictures, numbers and words to record ideas on a piece of paper.

• Make connections to patterns, cause and effect, and science ideas (food chains, food webs, etc.)
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?

4 lilypads

9 birds (5 + 4)
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?
Geometry Hunt
Look around. Can you see...

- Lines
- Arrays
- Equal Groups
- Circles
- Patterns
- Quadrilaterals
- Squares
- Numbers
- Cubes
- Spheres
- Units
- Symmetry
• 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?
Bio Hunt

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

- Nature overcoming human activity
- Something you can eat
- Plant/Tree material
- Evidence of a natural cycle
- 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

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!

Marlys Williamson (Science coordinator)
Marlys.williamson@cvesd.org

Alison Williams (Math coordinator)
Alison.williams@cvesd.org
KEEP LEARNING GOING:
RESOURCES

NATURE WALK APPS
- Merlin Bird Call App
- Seek by iNaturalist

HOW MANY IMAGES
- http://ntimages.weebly.com

OUTDOOR BINGO

SIDEWALK MATH
- UCLAMP: Math at Home

MATH TALKS
- mathbeforebed.com
- wodb.ca