

# Lucky Dog Humane Education Lesson 3 – STEM BUILDING

## Aligns to the following California Standards for K-5

- ! CA 3-5 ETS1 Engineering Design - Standards 1, 2 & 3
- ! CA.3 LS1 Life Science - Standard 2
- ! CA.CC.MP Mathematical Practices – Standards 1, 2, 3 & 7

## Aligns to Social Emotional Learning Outcomes

- ! **Self Awareness:** Identifying emotions, thoughts and values
- ! **Self Management:** Self-discipline - Impulse control
- ! **Social Awareness:** Perspective-taking - Empathy - Respect for others - Diversity
- ! **Relationship Skills:** Communication - Relationship building
- ! **Responsible Decision-making:** Identifying problems - Analyzing situations - Solving Problems - Ethical responsibility - Reflecting

**OBJECTIVE:** To challenge children to design and build appropriate housing for pets using knowledge of the species' needs, real pictures models, mathematical reasoning, and engineering design.

**PREPARATION:** Students will meet PAWfessor and JuneBug and learn about her experiences as a stray dog in Thailand vs how she feels now living with a family and having a safe and loving home.

### IMPLEMENTATION:

After participating in the Empathy for Animals lesson and story, the classroom teacher will lead a discussion on ways to help an animal feel safe, happy and loved. – about pets being a part of the family and the importance of them living inside the family home. The teacher will then lead the children to a building area (with blocks for younger children or building supplies for older children). Students will plan out a homeless dog's "dream house" - then discuss way to build a pet house using knowledge of the pet's needs, mathematic principals, and engineering design. The students will be given materials and time to plan, design, and build a "dream house" for a homeless dog or a safe enclosure for another pet.

### Materials:

Computer to research pet needs  
Printed pictures of real pet homes to copy (in resource packet)  
Measuring tools  
Graph paper  
Building supplies: foam, felt, rocks, cardboard, fake leaves, cardboard tubes (Paper towel or toilet paper rolls)  
Blocks (for younger children)

**Concepts:** Teaching respect for feelings of others and empathy for unhoused pets and people. Learning planning and design with careful consideration of the needs of the pet

**CONCLUSION:** Allow for building area to remain "under construction" for as long as needed. Students can finish deskwork in a timely manner to gain building time. Save designs and finished projects to display at "Kindnessfest" at the conclusion of the Lucky Dog Humane Education Program