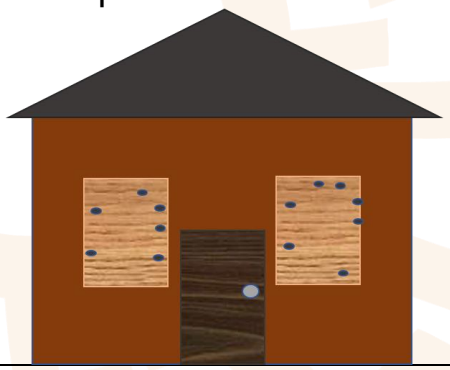
K-3RD OUR DYNAMIC EARTH

POST-PROGRAM ACTIVITIES ANSWER KEY

STRONG STRUCTURES

CAN YOU THINK OF SOME THINGS HUMANS DO TO DEAL WITH WEATHER? DRAW EXAMPLES!

Example: When people know a hurricane is coming through, they board up their windows with wood.



Building a house in a very windy area.

Answers will vary; they may choose to give the structure a deeper foundation, make it more aerodynamic, build underground, etc.

Living in a valley where it rains a lot.

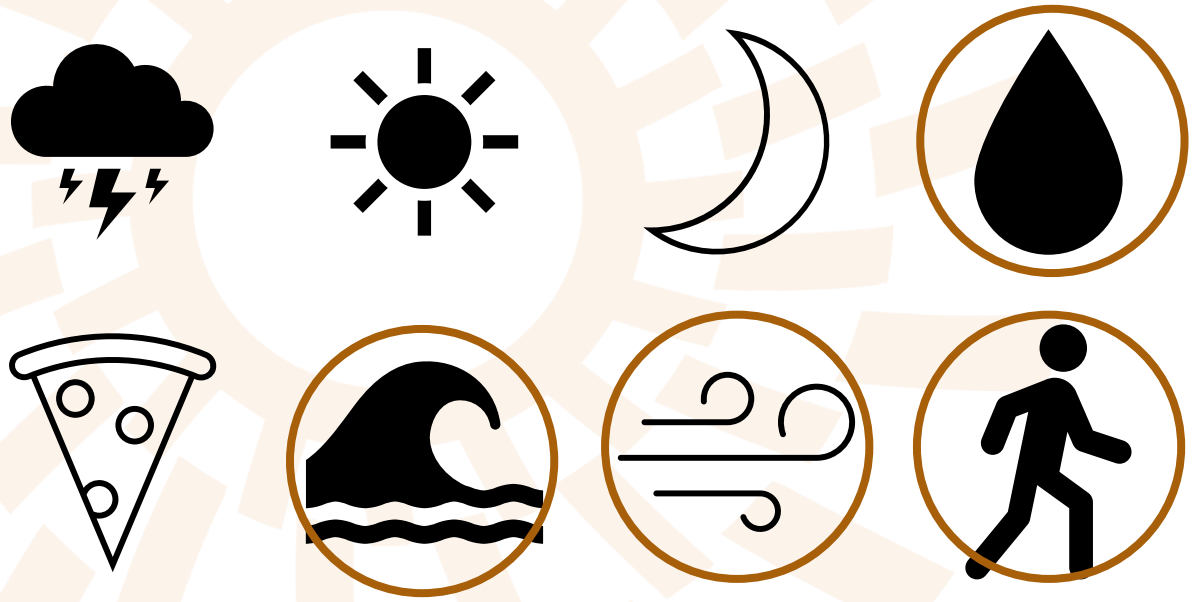
Answers will vary; they may choose to put the house on stilts, make an umbrella/similar to redirect water, design a flood wall, etc.

K-3RD OUR DYNAMIC EARTH

POST-PROGRAM ACTIVITIES ANSWER KEY

WEATHERING & EROSION

CIRCLE EXAMPLES OF THINGS THAT CAUSE WEATHERING AND EROSION



CIRCLE EXAMPLES OF THINGS THAT CAN BE AFFECTED BY WEATHERING AND EROSION

**Tree: wind can smooth the bark or cause them to lean; water/wind erosion of dirt around roots can topple; Shell can be smoothed by sand/water but K-3 may not know this.*

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POST-PROGRAM ACTIVITIES ANSWER KEY

BUILDING CHALLENGE

CAN YOU CREATE A MODEL OF A BUILDING THAT WILL WITHSTAND THE FORCE OF STRONG WINDS? TRY USING EVERYDAY MATERIALS TO CREATE A MODEL, AND THEN TEST ITS STRENGTH BY USING A HAIR DRYER OR LEAF BLOWER AS A SOURCE OF WIND!

Answers and designs will vary.

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POST-PROGRAM ACTIVITIES ANSWER KEY

QUESTIONS TO CONSIDER:

**These open-ended questions are intended to get participants to reflect and build upon content presented in the video. We suggest some possible answers, but there are plenty of creative alternatives out there!*

1. If you attempted the building challenge what worked well? What could you have done better?
    a. *Answers will vary based on student experiences. Conversation could include teamwork, material usage, time constraints, design flaws, etc.*
2. Why do you think it is important to make buildings strong enough to handle extreme weather?
    a. *Humans rely on strong buildings to stay safe in extreme weather. If the buildings are not strong, we can't stay safe.*
3. What are some things that you think help make a building strong?
    a. *Answers will vary, but may include material usage, shapes in the design, location of building, etc.*