

Ways to prevent flooding



Houses on Stilts

Some houses are built high on stilts. When the water rises the house does not flood. This works most of the time but sometimes the water rises too high!



Sandbags around the house

Bags filled with sand can help block out the water. If enough bags are stacked up they help prevent the flooding. If the water gets too high it will go over the bags.



Grass on the beach

Grass on the beach called dune grass can help keep the sand in place. If the grass is not there the waves can wash the sand away. Trees and bushes on land help keep the soil and ground in place which reduces landslides.



Breakwall

A breakwall is created with rock or large walls of concrete. It allows the waves to hit the wall and go back into the ocean. Sometimes the water can go over the breakwall or make the wall crumble.



Riprap

Riprap are large rocks that are placed near the water to break up a wave. If the water rises it will go over the rocks. The rocks are not compacted so the water can get between them and wash them away.

Ways to Prevent the Wind



Grass on the beach

Grass on the beach called dune grass can help keep the sand in place. When the wind blows the grass helps hold the sand in place.



Trees or other plants

Trees or plants can block the wind. Trees are often planted in long rows to help block and slow the wind. In this picture the trees help stop the snow from covering the road.



Breakwall

A breakwall is created with rock or large walls of concrete. It stops or reduces the wind from blowing on the land. The wind can blow over the top of the break walls too.



Fences

Fences are used on the beach and where it's snowy. When the wind blows, the fences help keep the sand or snow from blowing away. Fences need to be repaired often.

Directions: Create something to stop the wind or water from weathering your sand.

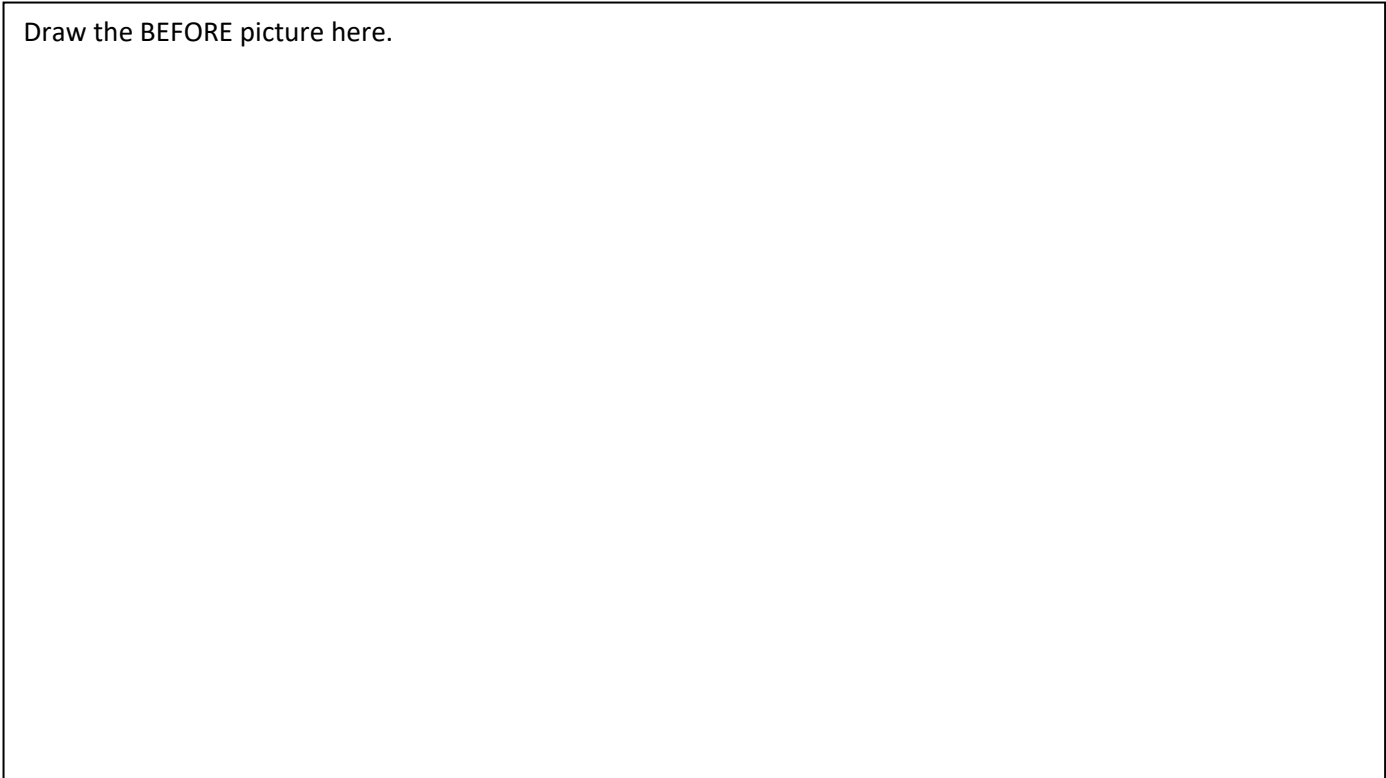
PREVENTING WIND OR WATER

Do you have wind or water weathering? **Circle:** WIND or WATER

Draw a BEFORE picture of your beach in BOX 1:

BOX 1:

Draw the BEFORE picture here.



What supplies will you use to block the weathering?

a. _____

b. _____

c. _____

d. _____

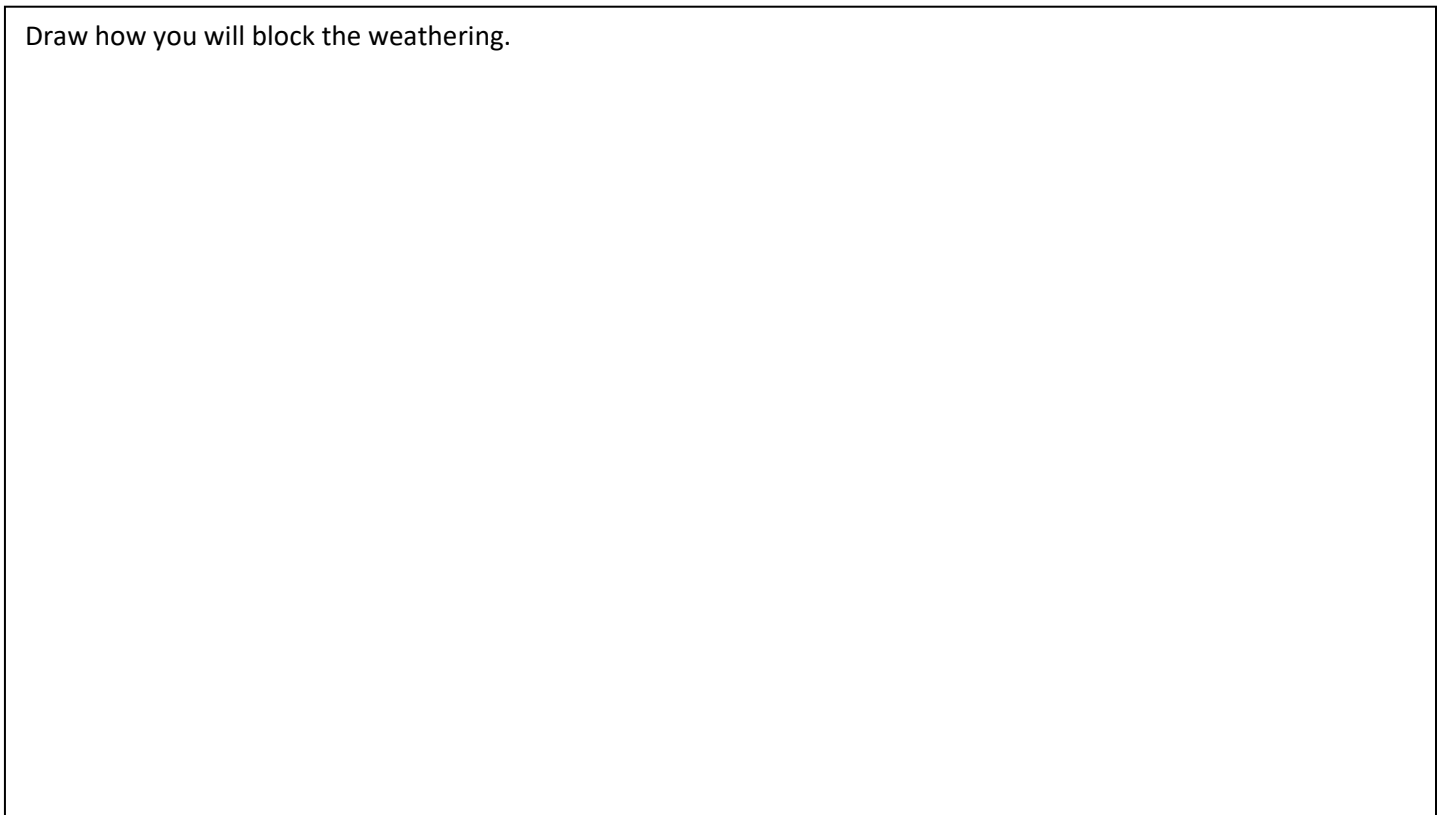
e. _____

f. _____

Draw a picture in BOX 2 above to show how you will block the weathering.

BOX 2:

Draw how you will block the weathering.



Did your solution work? If not try again. If so, describe how it worked.

Try the experiment again with a different solution and compare both.

Draw the new solution you used in box 3 below.

BOX 3:

Draw the 2nd way you will block the weathering.

Compare which solution was the best and why.
