5.5 Wind erosion



What does wind erosion mean and how could you represent it in a model with simple materials?



In many parts of the world, the change from agricultural land to low-nutrient soils is very often due to wind erosion.

Develop a way to protect farmland from wind erosion.



Set up:

- branches
- leaves
- possibly 1 plant
- dry sand
- dry soil
- small stones
- 1 large tray or something similar (flat cardboard, etc.)



How to conduct the experiment:

- 1. On a tray or a small piece of cardboard, create a growing area out of sand, soil and plants.
- 2. Generate wind by blowing on your growing area or fanning it (for example, with some cardboard). Write down what happens.
- 3. Then build a small protective barrier out of branches, stones or plants.
- 4. Generate wind again and write down what happens.
- 5. Compare the stability and the function of your protective barrier with that of the other groups.
- 6. Make a drawing of your arrangements on page 2.

Without a protective barrier:
With a protective barrier:



How would you advise farmers who are increasingly affected by wind erosion?



Wind erosion also dries out soil. How can you measure this?

	Technical application and vocational orientation:	
W X		
Space for your sketches		