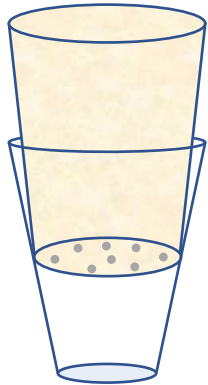
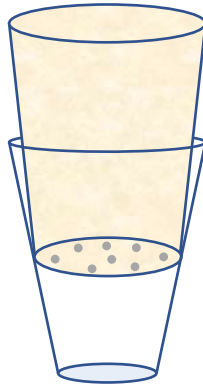


Worksheet: How much water can soils absorb?

1. Write which sample is which type of soil or soil component into the boxes under the glasses.



Sample 1:



Sample 2:




Sample 3:



Sample 4:


OBSERVATIONS:

2. Answer the questions by sorting the samples according to their dripping behavior. Always sort from “fast” to “slow”.

Questions:		1st place	2nd place	3rd place	4th place	
Which sample drips first, second, third, last?	fastest fastest first					slowest slowest last
Which sample drips fastest, which slowest?						
Which sample stopped dripping first, which last?						

3. How much water has flowed out of the samples? Draw the water levels into the glasses above.

4. Sort the samples according to their water retention capability. Always sort from “best” to “worst”.

Questions:		1st place	2nd place	3rd place	4th place	
						
How well does the sample retain water?	best					worst
Through which sample did the most water pass?	most					least

EVALUATION:

5. What do you think: Which soil properties influence how quickly the water passes through the sample? _____

From cactuses to water lilies, different plants require different growing conditions.

6. Which of your soils is best suited for plants that need little water? _____
 7. Which of your soils is best suited for plants that like constant moist roots? _____

ADDITIONAL IDEAS:

8. Do you have any questions about the experiment? Or an idea what else you could investigate about soils?

If you want, post your ideas and experiment pictures at the end of “Mission 2” of the earth/soil topic on www.kniffelix.de in the community area. You can see your upload once we have checked if you have considered all Kniffelix rules like, that there are no people on pictures or insults in texts.