

What are the effects of acid rain?

Activity sheet

Work in a group of four to find out about the effects of acid rain.

Task 1

Plan an investigation in the laboratory.

You will have the following materials:

acid rain
chalk
marble
slate
lime-cemented sandstone
iron
copper
zinc
lead

- By yourself, plan what your group could do to see:
How acid rain affects different materials over a period of three weeks.

Devise a table to organise what you will observe.

- Share your ideas with the other members of your group.
Agree a joint plan of action.
*These questions may help: What suggestions are in all of the plans?
What suggestions are in some plans but not in others?
What do you all agree about?
Are there any suggestions that you don't agree about?*

Agree how you will record your observations.

- Check your group plan and observation table with your teacher.
*Note down:
Which parts of your own plan and table are in the group's plan and table.
What you added after talking with other students or your teacher.*
- Together, carry out the plan you agreed and record your observations.

My contributions to finding out about the effects of acid rain

Name

Task 1

My plan for our investigation is

My suggested table is

What parts of my plan are included in our group plan and what I have added to my plan and table as a result of talking to other students and my teacher:

Task 2

Find examples of how acid rain has affected rocks and metals in your local environment.

Hold a short meeting.

- 'Brainstorm' ideas about likely places to look.
- Decide who is going to do what and when they need to have done it by.
- Arrange to meet again to share what you have found.

Hold your next meeting.

- Each person gives examples they have found which show the effect of acid rain.
- Decide which examples show the effects of acid rain most clearly and dramatically.
- Decide how to record the evidence:
 - describe in words*
 - draw a picture*
 - take a photograph*
- Agree who is going to collect the evidence and when they are going to do it.
- Agree how you are going to share the evidence with each other.

Collect your examples.

Task 3

Collect everything together to produce a poster or an ICT presentation.

- Work together as a group.
- Decide what to include.
 - Some ideas:*
 - What we did in the lab.*
 - What we observed.*
 - What our observations tell us about the effect of acid rain.*
 - What evidence we found in our local environment.*
 - Links between our test results and our environmental evidence.*
- Decide exactly who is going to do what to produce the poster or presentation.