
HYDROVILLE CURRICULUM PROJECT

Student Background Theme Evaluation
Activity 7: Toxicity Testing – Dose Makes the Poison
(Questions 81 –100 on Scantron Sheet)

Now that you have completed the Toxicity Testing Activity, we would like you to answer a few questions about what you did and what you learned.

81. The reaction that a population of radish seeds has to a chemical is known as the

- A. Frequency
- B. Exposure
- C. Response
- D. Dose

82. Which of these is composed of a chemical or chemicals?

- A. Water
- B. Hydrochloric acid
- C. An human being
- D. All of the above

83. From a dose-response curve, you can determine

- A. the dose level below which there are no adverse effects to exposure to a chemical.
- B. the dose level at which 100% of the study population will die.
- C. the dose at which 50% of a study population will die.
- D. All of the above

84. In the toxicity testing experiment, why do you think you need one trial that uses only water (0% concentration of the chemical being tested)?

- A. Students can see what happens to seeds that are not treated with a different chemical.
- B. Students can observe if water is toxic.
- C. The experiment needs to have a control.
- D. There need to be more than 5 experimental trials.

Listed below are a number of things that you did as part of the activity. Please indicate how interesting each one was to you.

85. Observing the effects of chemicals on seed germination and collecting/recording the data.

- A. Not at all interesting
- B. Slightly interesting
- C. Somewhat interesting
- D. Very interesting
- E. I didn't do this part

86. Constructing dose-response curves for each of the chemicals you tested.

- A. Not at all interesting
- B. Slightly interesting
- C. Somewhat interesting
- D. Very interesting
- E. I didn't do this part

87. Determining which household chemicals were toxic to radish seeds.

- A. Not at all interesting
- B. Slightly interesting
- C. Somewhat interesting
- D. Very interesting
- E. I didn't do this part

88. Working together on this activity with other students as a team.

- A. Not at all interesting
- B. Slightly interesting
- C. Somewhat interesting
- D. Very interesting
- E. I didn't do this part

89. How much writing have you done in your Hydroville Learning Log about this activity? (mark only one answer)

- A. Quite a bit (a page or more)
- B. Some writing (about a half page)
- C. A little bit (a few lines)
- D. I haven't done any writing

90. If you HAVE NOT done any writing in your Hydroville Learning Log about this activity, what are your reasons? (mark all answers that apply)

- A. I haven't started a Hydroville Learning Log
 - B. I don't have time
 - C. I don't know what to write about
 - D. I'm not a good enough writer
 - E. Other:
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Part of this activity involved working with other students in a team. In working on this activity, how difficult did you find each of the teamwork elements listed below?

91. Expressing my ideas verbally to others.

- A. Not difficult
- B. Slightly difficult
- C. Somewhat difficult
- D. Very difficult
- E. Too difficult for me to do

92. Listening to others.

- A. Not difficult
- B. Slightly difficult
- C. Somewhat difficult
- D. Very difficult
- E. Too difficult for me to do

93. Staying on task with the group.

- A. Not difficult
- B. Slightly difficult
- C. Somewhat difficult
- D. Very difficult
- E. Too difficult for me to do

94. Asking teammates for help.

- A. Not difficult
- B. Slightly difficult
- C. Somewhat difficult
- D. Very difficult
- E. Too difficult for me to do

95. Receiving criticism from other team members.

- A. Not difficult
- B. Slightly difficult
- C. Somewhat difficult
- D. Very difficult
- E. Too difficult for me to do

96. Giving praise to the ideas or work of others.

- A. Not difficult
- B. Slightly difficult
- C. Somewhat difficult
- D. Very difficult
- E. Too difficult for me to do

97. Getting along with everyone on the team.

- A. Not difficult
- B. Slightly difficult
- C. Somewhat difficult
- D. Very difficult
- E. Too difficult for me to do

98. Using my time efficiently.

- A. Not difficult
- B. Slightly difficult
- C. Somewhat difficult
- D. Very difficult
- E. Too difficult for me to do

99. Overall, how well would you say your team worked together on this activity?

- A. Worked very well
- B. Worked well
- C. Worked OK
- D. Worked poorly
- E. Worked very poorly

100. Overall, how would you rate your experience of teamwork on this activity?

- A. Very positive
- B. Positive
- C. Neither positive nor negative
- D. Negative
- E. Very negative