

Pick one of the following two scenarios. Write a hypothesis and experimental plan, explaining how you'd go about designing a sampling program.

**Scenario 1**

A new species of centipede has been accidentally introduced into Western Australia from overseas. Scientists know its population is distributed in one small area in the Perth Hills and are carrying out control measures. However, they also want to set up a sampling program to map any future spread of the introduced species.

**Scenario 2**

Researchers want to know whether prescribed burns have any effect on the abundance of a mite species that's known to live in native bushland. The mite is relatively rare and is usually found under old logs or fallen branches. If there are changes, researchers would also like to know how long it takes for mite abundance to return to their original levels. (Hint: It will help if you divide the experiment in two and use two separate hypotheses.)

Hypothesis for scenario \_\_\_\_\_ :

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Experimental design:

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