

### Activity 4.3

Title: Multiple Choice Questions

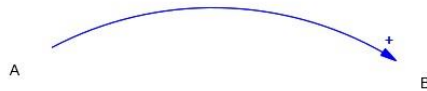
Learning outcome: Recap of main notions learned in Lecture 1

Applicable: it can be used in the first lecture of the Systems Thinking module

Green skills: discussion, collaborative planning, co-creation, systems thinking

Instructions: Answer the following questions:

1. Two variables are connected as shown in the figure



If variable A decreases, what will happen to variable B?

- a) **It will also decrease**
- b) It will increase
- c) It will remain constant

2. Two variables are connected as shown in the figure



If variable A decreases, what will happen to variable B?

- a) It will also decrease
- b) **It will increase**
- c) It will remain constant



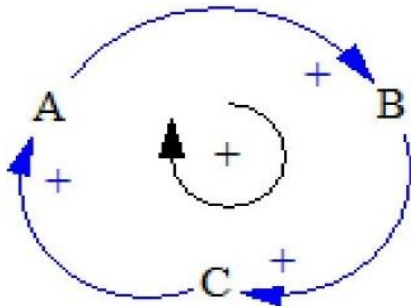
3. Two variables are connected as shown in the figure



If variable A increases, what will happen to variable B?

- a) It will decrease
- b) It will increase
- c) It will remain constant
- d) **It will decrease after some time t**

4. Three variables named A, B, and C form a feedback loop like the one shown in the figure below

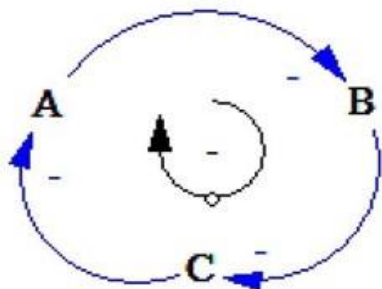


How is such a feedback loop called?

- a) **Positive feedback loop**
- b) Negative feedback loop
- c) None of the above

5. In the figure above, if starting from variable A, we increase A, what will be the ultimate result of the loop?
- a) Variable B will decrease
  - b) Variable C will increase
  - c) **Variable A will get a further increase**
  - d) None of the above

6. Three variables named A, B, and C form a feedback loop like the one shown in the figure below



How is such a feedback loop called?

- a) Positive feedback loop
  - b) Negative feedback loop**
  - c) None of the above
7. In the figure above, if starting from variable A, we increase A, what will be the ultimate result of the loop?
- a) Variable B will decrease
  - b) Variable C will increase
  - c) Variable A decrease, maybe even canceling the initial increase**
  - d) None of the above