

Teacher Risk Assessment & Notes

Activity: Testing yeast growth under fungicide dilutions as a proxy for bee microbiome impacts.

Hazards:

- Garden fungicide – low toxicity but may irritate eyes/skin.
- Yeast/sugar solution – minimal hazard, but do not consume.
- Warm water – scald risk if too hot.

Control Measures:

- Students wear gloves and goggles.
- Teacher dispenses fungicide; students use diluted amounts only.
- Keep food/drink out of lab.
- All solutions collected in a labeled fungicide waste container for disposal via school chemical waste procedures.
- Wash hands after activity.

Notes:

- If chemical use is not permitted, run as a demonstration or provide a pre-prepared dataset.
- Extension option: pollen germination test under microscopes (requires sucrose + boric acid medium).

Curriculum Links:

- Ecology: pollination and interdependence of species.
- Human impacts on ecosystems.
- Experimental design: independent/dependent variables, controls.