

THE NEEDS OF SEEDS

All living things have certain needs in order to live and grow. For example, we need certain abiotic factors like oxygen, water, and nutrients such as carbohydrates, protein, and fats. We breathe oxygen from the air and get water and nutrients when we eat. We also need certain temperatures to live and grow even though our bodies can make their own heat by using the energy from food. Luckily we are able to move around and get these things for ourselves everyday so we survive.

Plants are also living things like us that have certain needs to live and grow. Plants are a very diverse group ranging from small moss that carpets our forests to giant Redwood trees. The abiotic factors needed by plants are water, carbon dioxide, and nutrients. They need the same nutrients we do, they just get these chemicals from the soil. Plants also need the right temperature and light to survive.

If a plant is getting all of its needs met it will produce seeds. Seeds are actually a baby plant inside of a protective seed coat. The seed will hopefully fall in soil where it gets the right amount of water, carbon dioxide, nutrients, warmth, and sunlight. When the baby plant gets these things, it will begin to push its roots and leaves out of the seed coat. This process of the baby plant sprouting is called germination. As long as the plant gets the abiotic factors it needs it will continue to grow and develop.

You are going to design, conduct, and communicate the results of a scientific investigation about these Needs of Seeds. All seeds need many things to sprout, but one thing is the most important. **Which abiotic factor is most important for seeds to germinate?**



LOOK for literal meaning... any vocabulary?

ANALYZE what is important from each paragraph

PROVE IT... what examples or evidence given

SO WHAT? why is this important information?