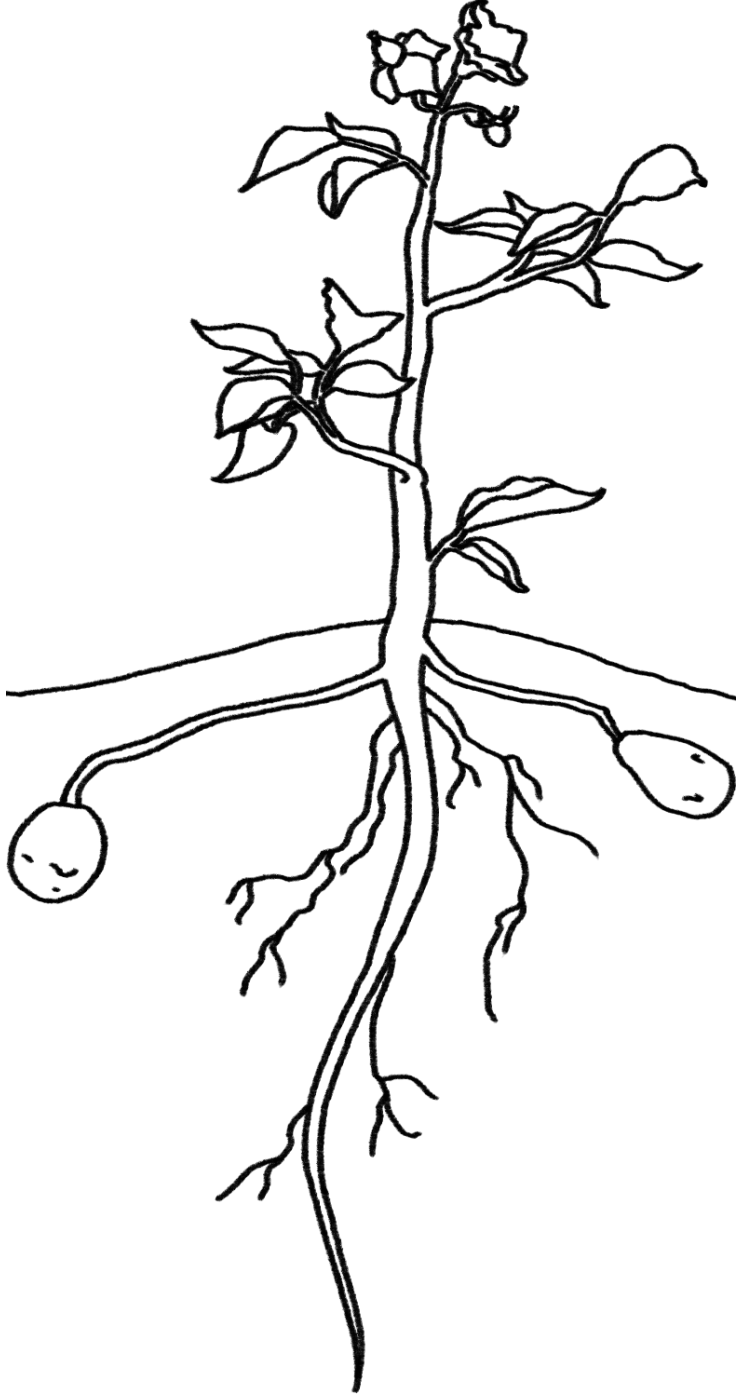


Matter Tracing Tool: Matter Movement Inside a Growing Potato Plant

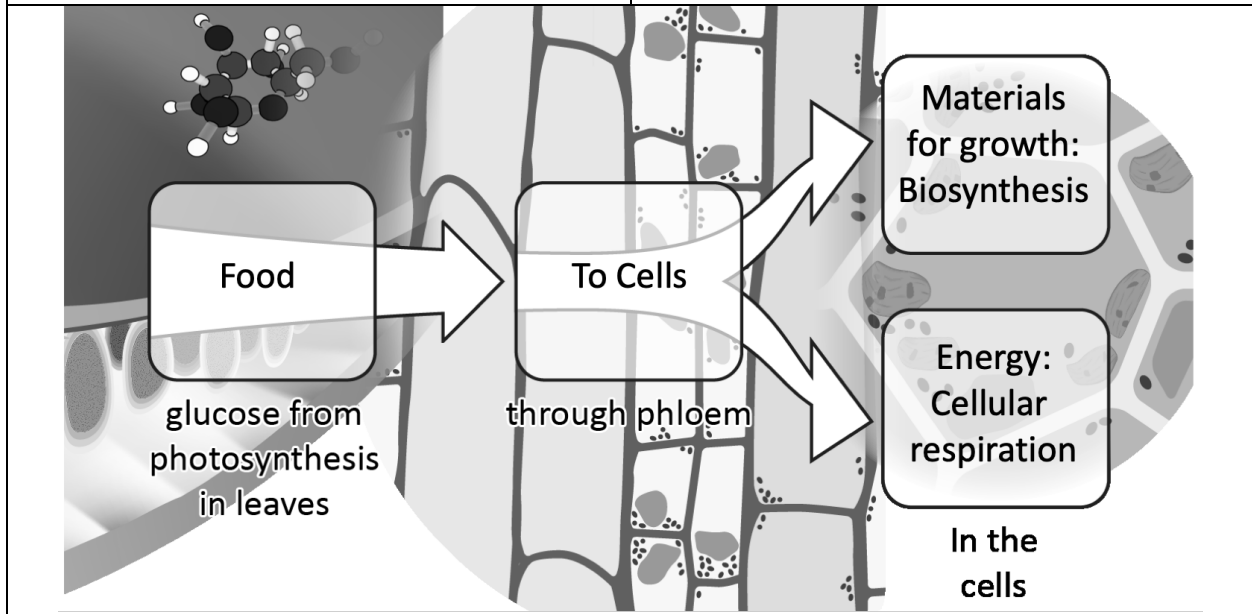
Use the drawing below to show how matter moves into through, and out of a potato plant that is growing, functioning, and making potatoes.

	<p>1. Draw colored arrows to show movement of carbon-containing molecules. When the molecules move to or from every cell in the plant, you can choose one cell as an example.</p> <p>Key: Color of arrows for:</p> <ul style="list-style-type: none">• Large organic molecules (LOM)<hr/>• Small organic molecules (SOM)<hr/>• Carbon dioxide (CO₂)<hr/> <p>2. Use the space below to list other molecules that also move through the plant's roots, stems, and leaves (you don't need to draw arrows).</p> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>
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Matter and Energy Changes in a Growing Potato Plant

Explain three processes that change matter and energy as a potato plant grows, functions, and makes potatoes by answering the Three Questions for each process.

<p style="text-align: center;">Photosynthesis</p> <p>Matter Movement in: Where molecules are coming from: _____</p> <p>Matter Change: Reactants: _____ Products: _____</p> <p>Energy Change: From _____ To _____</p> <hr/> <p>Matter Movement Out: Where molecules are going to: _____</p>	<p style="text-align: center;">Biosynthesis for growth</p> <p>Matter Movement in: Where molecules are coming from: _____</p> <p>Matter Change: Reactants: _____ Products: _____</p> <p>Energy Change: From _____ To _____</p> <hr/> <p>Matter Movement Out: Where molecules are going to: _____</p>
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<p style="text-align: center;">Cellular Respiration for energy</p> <p>Matter Movement in: Where molecules are coming from: _____</p> <p>Matter Change: Reactants: _____ Products: _____</p>	<p>Energy Change: From _____ To _____</p> <hr/> <p>Matter Movement Out: Where molecules are going to: _____</p>
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