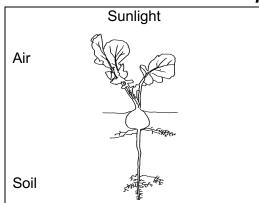
Name:	Class:	Date	:

## 3.1 Predictions and Planning Tool: Investigating Radish Plants Growing

## A: Your ideas about what happens when radish plants grow



Matter Movement: Draw and label arrows showing your ideas about materials moving into and out of a growing radish plant that has soil, air, and sunlight.

Matter Change: Explain your ideas about chemical changes that are taking place inside the plant. *Remember:* 

- Materials that the plant uses (arrows going in) are reactants in chemical changes
- Materials that the plant produces (arrows going out) are products of chemical changes

Energy Change: Explain your ideas about energy changes that are taking place inside the plant.

## B. Your ideas and predictions about using investigation tools for evidence about the Three Questions

- How can you use three tools to detect or measure matter and energy movement and changes?
  - o A digital balance that can measure matter movement by detecting very small changes in mass.
  - o BTB that can detect matter change by changing color if there is more carbon dioxide in the air (in both light and dark).
  - o Your senses: You can observe what happens to plants as they grow, move, and change.

Question	Which tool(s) (circle)?	What data will your tool collect and how will the data help answer question?	What do you predict will happen? What will you observe?
How will you measure	Scale		
and observe	ВТВ		
movement of matter?	Senses		
How will you detect	Scale		
and record matter	ВТВ		
<u>changes</u> ?	Senses		
How will you detect	Scale		
and observe energy	ВТВ		
changes?	Senses		

## C. Your plans for the investigation

Use the back of this page or a separate worksheet to draw and explain your ideas about how to set up the investigation and use the tools.

