

Cross-Curricular Discussion: Q

Directions: The following list of discussion questions is provided to help you take notes, brainstorm ideas and test your thinking in order to be more actively engaged in class discussions related to this article. All questions in this section are related to topics covered in "[Small intestine is first stop for fructose.](#)"

PHYSICAL SCIENCES**Discussion questions:**

1. What are isotopes and how can they be used to label chemical molecules?

2. How is mass used to identify and track isotopes?

Extension prompts:

3. How is radioactivity used to identify and track some isotopes?

CHEMICAL AND BIOLOGICAL SCIENCES**Discussion questions:**

1. What are sugars (or saccharides)? Using sucrose as an example, describe how mono, di and polysaccharides are different.

Extension prompts:

2. What is fructokinase?

3. What is aldose reductase?

4. What is the hepatic portal vein?

ENGINEERING AND EXPERIMENTAL DESIGN

Discussion question:

1. How could similar studies be performed in humans, or in other animals larger than mice?