

Digestion and Nutrition

Lesson 10 - Enzymes

Biology - Key Stage 3

Mrs Walsh

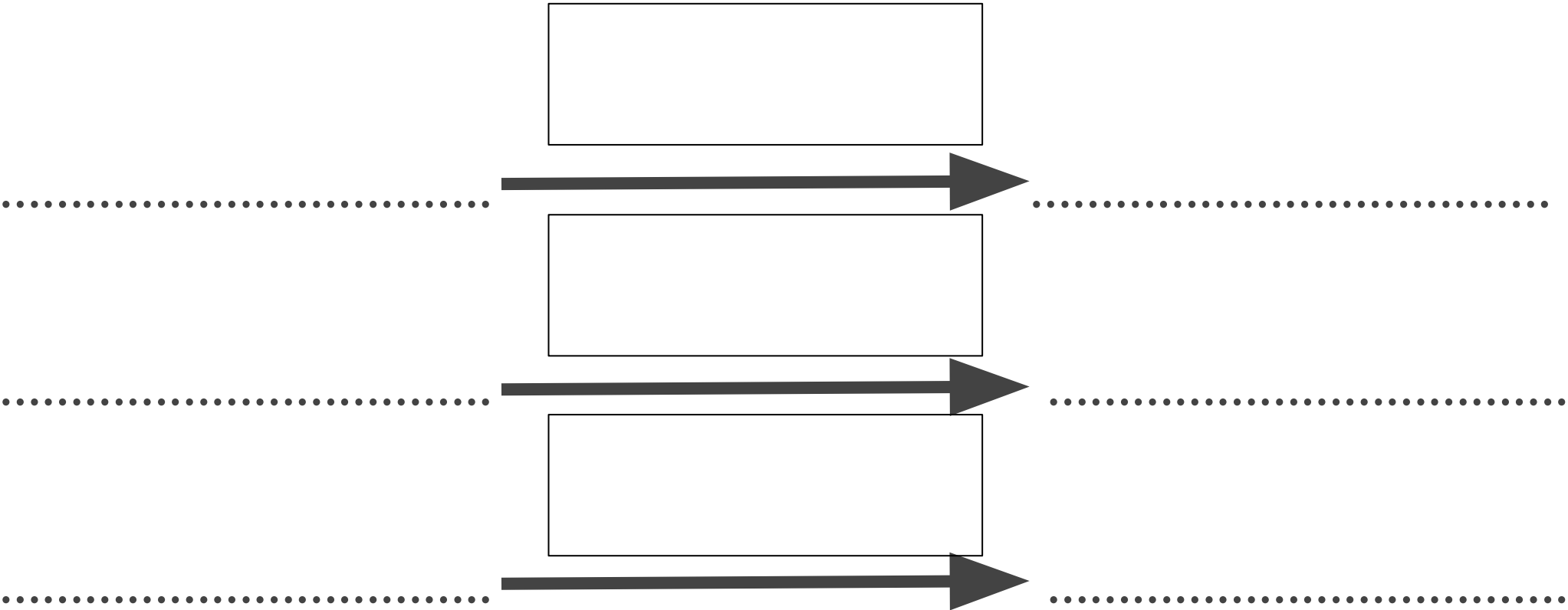


Enzymes



Enzymes

- Enzymes are like chemical
.....



..... are broken down into by

..... are broken down into by

..... are broken down into and by

.....



Modelling Digestion

Ask for permission before using any materials from home.

Carry out with adult supervision.



Modelling chemical digestion and absorption in the small intestine

Labelled diagram

Predictions

I predict that there will be a test for **sugar** in the water surrounding the visking tubing because

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.....
.....
.....

I predict that there will be a test for **starch** in the water surrounding the visking tubing because

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.....
.....
.....



Modelling chemical digestion and absorption in the small intestine - conclusion

Write a conclusion for the results.

- *Did you find starch in the water outside the tube? Explain why.*
- *Did you find sugar in the water outside the tube? Explain why.*

Word bank:

starch, amylase, sugar, diffuse, semi-permeable, solution, large, small

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Evaluating models of digestion



Evaluating Models

How is the model similar to the absorption in the intestines?

e.g. sugar diffuses across the membrane into the water

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How is the model different to the *absorption in the intestines?*

e.g. bloodstream constantly moving

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-
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Digestion Questions

1. What causes the stomach to have a pH 1-2?
2. What is 'mechanical digestion'?
3. Where is bile made?
4. Where is water absorbed from digested food?
5. Name two ways the small intestine is adapted for its function
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6. What does 'semi-permeable' mean?
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