



Science Sauce Online

A source for free flipped learning lessons

Flipped learning reverses the traditional classroom process of “learn it in school, practice at home”. Flipped learning involves students learning new content at home through a video, reading, listening or other activity. They then come to class with the foundation knowledge, ready to really engage with the topic. This is a flipped learning lesson with self-study materials and suggested class activities.

Resources for this lesson, including the student tasks, can be found at:

ScienceSauceOnline.com

Enter lesson code:

01701

Lesson Topic:

BLOOD GLUCOSE AND DIABETES

Age: 14-16

Self study input method: Video

Self study task: Question sheet

Classwork prep time: Near zero

STUDENT PRE-CLASS TASK

- Watch the video: “Blood glucose control and diabetes”.
- Answer the questions on the student homework task sheet.

IN-CLASS TASKS

INFORMATIVE POSTER: Create a poster intended for a doctor's surgery detailing the importance of diet control and insulin injections for a person with diabetes.

Time (mins)	Students...	Teacher...
2	In groups of about 4 or 5, review answers to the homework task.	Monitors.
3	Review answers (and make corrections if necessary).	Gives answers to the student task sheet.
2	Listen to instructions.	Explains the poster task.
10	In groups of four, discuss ideas for the content that must be on the poster. Write bullet points listing key points.	Monitors discussions and makes sure each group has noted the key points.
15	Individually, complete their posters based on the bullet points listed.	Monitors students and gives feedback. Encourages group discussion and collaboration.
10	Exchange posters with another group. Discuss one strength and one target for improvement for each poster (sharing feedback is optional but not essential).	Monitors discussions. Encourages students to be constructive in their feedback.
10	Plenary: In their groups of four, students take it in turns to state one word or phrase linked to the lesson content, and each other student in turn must state a question for which that is the answer (writing not necessary). Repeat for each member of the group.	Monitors discussions.

ANSWERS TO STUDENT TASK

Answers to the student task sheet will be relatively obvious for subject teachers, and can all be found by reviewing the student self-study resources.

Answers are not published here, as these sheets are easily accessible by students. If you need clarification on any of the questions please feel free to email me and I'll get back to you ASAP.

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