



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:

01100

Lesson Topic: **CHARACTERISTICS OF LIVING ORGANISMS**

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: “Characteristics of living organisms”.
- Answer the questions on the student homework task sheet.

IN-CLASS TASKS

CARTOON STRIPS: In groups, create a 7 piece cartoon strip with each “frame” showing one of the seven characteristics of living organisms being demonstrated. Captions/speech bubbles are encouraged. The size and presentation are dependent on resources available. A good technique is to draw each frame on an A5 sheet (= A4 cut in half), and to stick them together on a larger sheet of coloured paper. Students should be encouraged to be creative with their presentation.

Optional: depending on class level, each group could create two strips, one for a plant and one for an animal.

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.
5-10	<p>Planning: Students are assigned the task of creating a 7-piece cartoon strip (ideally in groups of 7: one student per frame). Students must plan what will be shown in each frame.</p> <p>NOTE: Expect some obvious controversy over how to depict “reproduction” for animals. Some reasonable suggestions are images of parents and offspring, birds with eggs etc.</p>	Monitors and answers questions. Expect students to ask for clarification regarding plant movement and sensitivity.
20	Draw cartoons.	Monitors and enquires with individuals.
10	<p>Peer feedback: Students go around the room looking at other cartoon strips. Each student must choose 3 points that they wish they had included in their own work. Students must share their ideas with members of that group.</p>	Monitors.
10	<p>Plenary: Write a multiple choice question involving two life processes. Ask the question to other students in the room.</p>	Takes turns answering some of the questions. Asks own question(s) to the students.

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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