



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:

01101

Lesson Topic:

ARTHROPODS

Age: 14-16

Self study input method: Video

Self study task: Question sheet

Classwork prep time: Moderate

STUDENT PRE-CLASS TASK

- Watch the video: “Arthropods”.
- Answer the questions on the student homework task sheet.

IN-CLASS TASKS

CANDY MODELS: Create a model of each arthropod type using confectionary. A range of types of candy will be required, and a range of shapes/sizes are encouraged. Other useful resources may include tooth picks, kebab skewers etc.

The teacher may wish to have students bring in their own products for this activity and so should be informed of the requirements in advance.

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	Planning: Students grouped into 4s and must plan how they will create each arthropod, including which organism will be used (e.g. crab or lobster for arthropod)	Elicits ideas from each group and encourage students to be specific with their choices. For example, the teacher may ask how students intend to represent the joints in legs etc.
20-30	Work in groups to create their arthropods.	Monitors and gives suggestions where necessary.
10	Share designs with the group. Students vote anonymously on the best example of each arthropod.	Collects vote slips and announce winner.
10	Plenary: Summarise each arthropod type in 5 words. (For example, insects could be: "wings", "three segments" "six legs".) Share lists with a partner.	Monitors.

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.

contact@sciencesauceonline.com