

Lesson plan

Kenley Revival Project



1. Lesson Plan Information

Subject/Course: Nature

Topic: Food web - energy flow within trophic levels

Length of Period: 50 minutes to 1 hour

2. Expectation(s)

Curriculum links:

- Food chain/web and paths of energy flow

Skills learnt:

- Refresh knowledge around food chain/web and food pyramid
- Using the correct scientific terminology when talking about energy transfer
- Understand relationship between trophic levels
- Calculation of the efficiency of the energy transfer between trophic levels

3. Content

The lesson is good for team work in groups 2-4 students.

Starter (10 mins) *How will I engage the learners?:*

- Introduction about Kenley Common and Kenley Revival Project.
- Create a food web by using your workbook.

Main activity (40 mins) *How does the lesson develop? What can learners do to show me their understanding?*

- Explain the Food pyramid and students should see that their food web can be

transformed into a food pyramid

- Use the cans and let the students build a food pyramid
- Explain the different types of food pyramid
- Explain the path of energy flow and let students answer questions

Plenary (15 mins): *How will I bring all the important ideas from the learning experiences together for/with the students? How will I check for understanding?*

- Crossword summarises all elements of the lesson and can be done as homework.

4. Assessment

(Recording Devices (where applicable): quiz/drawing/verbal questions/create something)

Each activity, learners should be assessed on their understanding

Assessment of starter:

- Introduction about Kenley Common and Kenley Revival Project. – Discussion about Kenley Common to ascertain pre-existing knowledge from learners.
- Create a food web by using your workbook – have a look at food webs and ask questions

Assessment of main activity: Questions

- Explain the Food pyramid and students should see that their food web can be transformed into a food pyramid – group discussion and questioning
- Use the cans and let the students build a food pyramid – activity to encourage group discussion
- Explain and discuss other pyramid shapes with students
- Explain the path of energy flow - answer questions and solve energy flow chart at the end of this activity

Assessment of plenary:

The crossword summarises all elements of the lesson and can be done as homework.

5. Learning Context

Differentiation/ modification examples for starter/main activity/plenary and resources for advances/ less able learners.

Starter: Talk to quieter groups/ share contributions within the group

Main activity: Group work encouraged for activities and worksheets/ stronger students can support less able students/ top trumps in pairs where one person knows the rules/ hand-out of pp for students if necessary

Plenary: Evaluation sheets/ questioning if the group are responding well to group discussion/ groups can draw pictures of feedback instead

Resources:

Powerpoint

USB stick with Kenley Footage

Projector

Screen

Learning box for workshops