

How to plan a KS3 science curriculum that works for your school

Plan your KS3 science curriculum using our free **interactive Scheme of Work (iSOW)** in 3 simple steps...

Step 1: Create your scheme

Log into **ActiveLearn**, go to '**Plan**' at the top of the screen, then click '**Create a new scheme**'. Give your scheme a name and choose whether to deliver your KS3 course over 2 or 3 years.

| Active Learn Library | Tasks Plan 🗸 Assess 🗸 Reports 🗸 Admin | | Search resources Q | 🛛 н | elp Hi J. |
|----------------------|---|-----------|--------------------|--------|-----------|
| Create new scheme | e of work Return to scheme list | | | | |
| 1 Scheme options | Edit scheme of work | | | | Neut |
| | | | | ancer | Next |
| Scheme name: | New KS3 Science Scheme | | | | |
| Subject: | Science | | | | ~ |
| Course: | Exploring Science: Working Scientifically | | | | ~ |
| Select course length | Z Exploring Science: Working Scientifically | ⊖ 2 years | 3 years | | |
| | | | | Cancel | Next |

Step 2: Decide the order you will teach the topics using drag and drop

The **iSOW** will automatically highlight any prerequisite topics.

Your scheme of work can be shared with your team.





Step 3: Select lesson activities

Choose those most suited to your own style of teaching and the needs of your students.

A range of activities are available with accompanying teacher guidance.



The progression bands **Developing**, Securing and Exceeding are used to indicate the demand of each activity.

Scheme explorer 🚱 Expand all Starters Scheme of work overview Year 1 Year 2 Autumn half term 1 Autumn half term 2 Plenary 3. 8 Fluids 8I End of Unit Tests ▼ 8B Plants and reproduction 8Ba Classification and biodiversity 8Bb Types of reproduction 2: Seeds 8Bc Pollination 8Bd Fertilisation and dispersal 8Be Germination and growth 8B End of Unit Tests Spring half term 1 Spring half term 2 Summer half term 1

1: Life cycles 1

Ask students what a life cycle is and remind them of work at the end of Unit 7B in which they considered the life cycle of humans. Ask students to draw a life cycle for a plant. They could work in pairs for this to discuss ideas, but each student should produce their own diagram. Encourage them to draw their life cycles in the centre of a piece of A3 paper, which will allow additional notes and information to be added in

Equipment: Piece of A3 paper.

Activity Type: Baseline Assessment, Formative Assessment

Level: Developing/Securing

Show students some different seeds and ask questions to revise parts of previous topics (e.g. What are these? Where are they found? What sort of plants produce these? How are they formed?). Alternatively, encourage each student to come up with one question about seeds. Then choose students at random to ask their question and choose another student to answer. This works particularly well if you have random name picker software. (Some simple software is available on the Internet by searching for 'random name/student picker/generator' or 'student fruit machine'). Correct misconceptions as they occur and finish by asking students what is needed to get the seed to start to grow? Write the students' ideas on the board or a sticky note for analysis/amendment later in the topic

Equipment: Random student picker software (optional)

Activity Type: Baseline Assessment, Formative Assessment

Level: Developing

3: Jumbled photosynthesis

Ask students to work together in groups to make a sentence out of each of these groups of three words: plant, photosynthesis, food; glucose, energy, respiration; reactants, products, word equation; chloroplasts, plant cell, photosynthesis. Ask random groups to read out one of their sentences and ask other groups to say whether they have made a sentence that is substantially different. Correct any misconceptions. Write an agreed revised/corrected form of each sentence on the board, acknowledging that students' own sentences may well be different

Other resources in ActiveLearn Front of class Student Books

Each topic is covered on a double-page spread. Click on the **blue hotspots** to open the activities.* You will always find two hotspots at the start of a topic: one that links you to the Learning Objectives and another that links you to the worksheets.



Homework and Practice Exercises

An extensive bank of online auto-marked homework and practice activities is available in the '**Exercises**' tab of ActiveLearn. These are designed for student use in lessons or at home to cement their knowledge and skills.





As a teacher, you can view your students' results and give feedback using the 'Task Report' section of your account.

