



Lesson Plan: GROW INVESTIGATION

Note: For more details see the learning resource PDF.
All worksheets are available on our website.

Lesson Objectives:

- Develop **observational skills** and encourage children to **draw simple conclusions** from their observations using scientific language.
- Children will understand **how to use the data** they have gathered to recognise an effect.
- Take **accurate measurements**.
- **Look for patterns** in data.

Total Duration:

Two hours for setup. Eleven days recording for five minutes a day. Twenty minutes on final day for calculations and data upload.

Activity: Starter

10 minutes

- As a class discuss how plants grow and how water and light affects their growth.
- Play intro film.

Materials:
N/A

Web resources:

Film: [Introduction to Grow](#)
Web: [Classroom Presentation](#)

Activity: Using the growth chamber.

2 Hours

- Play the relevant how-to film for the activity.
- Split children into pairs and have them design their growth chamber.
- Trim off the roots to 1.5cm length.
- Remember to measure the circumference of the spring onion bulb.
- Trim the spring onion to 4.5cm not including the roots.
- Put the spring onion in the chamber with 30ml of water.
- Place the growth chamber somewhere against a wall outside in a sunny spot.
- Record the maximum length, time and temperature for an eleven-day period.
- Top up water if needed to keep at 30ml.

Materials:

- 1 Plastic Cup
- Pupil Recording Sheet
- String
- Scissors
- Cling film
- Elastic bands
- Water
- Syringes or measuring cylinders
- Spring onions
- Permanent marker pens
- Rulers
- Directional Compasses (Optional)
- Thermometer or data logger
- Trays to carry the cups
- Sticky tack

Web resources:

[How to film](#)

Activity: Daily measuring activity

5 minutes per day

Activity: Plenary

10 mins