

# Hatching failure and population bottlenecks

## *Teacher Guidance Notes*

**Curriculum Level:** 8

**Achievement Aim:** Ecology

- Investigate the effect of bottleneck size on hatching failure.

**Key Competencies:** Relating to Others, Participating and Contributing

**Time Allowance:** 1 hour

**Outline:** Activity based on a study investigating the effect of population bottleneck size on hatching failure in birds. To initiate discussion and interpret results of this study.

**Suggested Lesson Plan:**

	<b>Activity</b>	<b>Resources</b>
<b>Introduction</b>	Show students the PowerPoint	PowerPoint – Hatching failure
<b>Main Activity</b>	Show the PowerPoint up until slide 32 “Read the information on the worksheet, study the graphs and answer the questions”  Hand out the worksheets. Students can work in groups and try to answer the questions.  Show the rest of the PowerPoint and discuss answers with students.	Hatching failure worksheet  PowerPoint – Hatching failure
<b>Plenary</b>	Discuss why it’s important for scientists and conservationists to work together.	Paper by Briskie and Mackintosh.

**Extension Activities**

- Students may read and discuss the original paper by Briskie and Mackintosh.