

## **Resources and tools for teachers**

**How wings really work:** <http://www.cam.ac.uk/research/news/how-wings-really-work>

**An osprey fishing in spectacular super slow motion:**

<https://www.youtube.com/watch?v=yQOVcP67zFM>

**Illustration of Newton's 3<sup>rd</sup> law – downwash of air from helicopter rotors:**

<https://www.youtube.com/watch?v=Rj-k3lpKSts>

**Article on flight and climate change**

<https://www.nytimes.com/2017/06/20/business/flying-climate-change.html?emc=eta1>

**Rubric for Evaluating NGSS Lessons**

<https://www.nextgenscience.org/sites/default/files/EQuIPRubricforSciencev3.pdf>

## **From A Framework for K-12 Science Education (National Academy of Sciences): PRACTICES FOR K-12 SCIENCE CLASSROOMS**

1. Asking questions (for science) and defining problems (for engineering)
2. Developing and using models
3. Planning and carrying out investigations
4. Analyzing and interpreting data
5. Using mathematics and computational thinking
6. Constructing explanations (for science) and designing solutions (for engineering)
7. Engaging in argument from evidence
8. Obtaining, evaluating, and communicating information