





Teaching –learning module compiled by the PARSEL consortium as part of an EC FP6 funded project (SAS6-CT-2006-042922-PARSEL) on Popularity and Relevance of Science Education for scientific Literacy







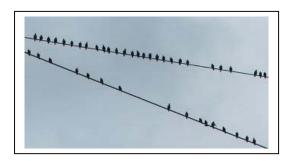






The high-voltage Bird

Assessment



In autumn many migratory birds gather on high-voltage power lines. Why are they not harmed?

Some exeptions from this picture are found when the birds are big, like storks. Why are big birds harmed by power lines?

Some storks are killed by power lines.



Developer: Stefan Burzin and a Teacher Group of the Sinus-Programme

based on an idea of Lewis C. Epstein, Thinking Physics, Insight Pr, 2nd ed. 1984

Institution: IPN - Leibniz-Institute for Science Education, University of Kiel

Country: Germany







Criteria for assessment	excellent	good	fair	poor
Content:				
The migratory birds do not connect two different potentials				
The distance between their feet is so small that there is no potential between them.				
Storks can touch two power lines or the wire and the power pole at the same time. So the electric power can go through the body and harm them severely.				
Communication				
The arguments are given in a clear way and explained well.				
The disussion is supported by quietness and discipline.				

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