

Birds and Polynomial Functions
Teacher Notes for Potential Extensions

Additional Questions:

1. What are endangered species?

Resources:

<https://www.environmentalscience.org/birds-environmental-indicators>,
<https://www.nationalgeographic.org/encyclopedia/endangered-species/>

2. Why is it important to save endangered species?

Resource: <https://www.gviusa.com/blog/why-should-we-save-endangered-species/>

3. What birds or other animals are endangered in Illinois or in our specific county?

Resource: <https://www2.illinois.gov/dnr/ESPB/Pages/default.aspx>

Additional Notes Direct from other Resources:

1. Data collected on crows helped identify the West Nile Virus which impacted the health of people across the world including the United States.

<https://www.chicagotribune.com/suburbs/daily-southtown/ct-sta-bird-banding-st-0916-20190913-v27ep6tpc5ad7chniflkrkely-story.html>

2. Anyone can help track birds by reporting a banded bird, dead or alive to the U.S. Geological Survey at https://www.usgs.gov/centers/pwrc/science/bird-banding-laboratory?qt-science_center_objects=0#qt-science_center_objects

3. Colored bands or tags, which can be plastic or metal, help provide information about a bird. These tags can contain “radio transmitters, nanotags, geolocators, cellular tracking technologies, GPS tags, and satellite transmitters”.

<http://www.briloon.org/uploads/Library/item/500/file/Lo%20Res%20Center%20for%20Ecology%20Boklet%20080116.pdf>

4. Wildlife biologists or researchers can work in a lab, work out in the field using nets and banding tools, or work in other ways such as flying a plane to monitor an area, “rappelling down a frozen waterfall to reach a cave where bats hibernate, or carrying a canoe for miles to remote lakes”.

<http://www.briloon.org/uploads/Library/item/500/file/Lo%20Res%20Center%20for%20Ecology%20Boklet%20080116.pdf>

Additional Activities:

Buddy Banding - <https://www2.illinois.gov/dnr/education/Documents/1B2HBuddyBanding.pdf>

Invite a Wildlife Biologist or Bird Bander to your class.