LESSON PLAN: THE CODEX ON THE FLIGHT OF BIRDS

Date:	Class:	Unit:
– 4.0.		0 11161

LESSON TOPIC:	Leonardo da Vinci's Codex on the Flight of Birds with Smack Dab in the Middle of Maybe
AIM:	In the novel <i>Smack Dab in the Middle of Maybe</i> , Mama uses Leonardo da Vinci's <i>Codex on the Flight of Birds</i> as a reference when creating a bird design for a tombstone. Full of da Vinci's drawings and notes, the <i>Codex</i> actually foreshadows the devices and principles of mechanical flight. In this lesson, students will find out more about the influence of the <i>Codex</i> on modern flight. Like Mama in the novel, they will also use it as a reference to create their own artistic designs.
OBJECTIVES:	 Students will be able to: Identify Leonardo da Vinci as a Renaissance artist, architect, and inventor. Recognize some of da Vinci's most famous artwork. Define "mirror script" and recognize how Leonardo da Vinci used it. Identify the significance of da Vinci's Codex on the Flight of Birds in regards to devices and principles of mechanical flight. Create an original design incorporating birds.
GET STARTED/ DO-NOW:	 Using a projector or smartboard, introduce the students to Leonardo da Vinci with this video: https://www.youtube.com/watch?v=RmOqszPJnc8 Show the class images of some of Leonardo's most famous artwork. Paintings that may be included: Mona Lisa, The Last Supper, and Lady with an Ermine. Explain the paintings to the students. Ask them to identify which they like best and why.
MINI-LESSON:	Leonardo da Vinci also created the <i>Codex on the Flight of Birds</i> . It is made up of 18 folios (two-sided pages) and written in the artist's famous "mirror" script. It is a collection of notes and sketches that foreshadows devices and principles of mechanical flight by exploring bird flight and behavior. The Codex was created between 1505 and 1506, when da Vinci also painted the "Mona Lisa."

LESSON PLAN: THE CODEX ON THE FLIGHT OF BIRDS

Date:	Class:	Unit:
	projector or smartboard, Flight" and "Leonardo d Smithsonian institute or https://airandspace.si.ec 2. Based on the informatio bird studies informed his	n provided in the videos, discuss how da Vinci's s drawings for a machine for mechanical flight. //www.airspacemag.com/history-of-
MAIN ACTIVITY:	of Smack Dab in the Middle of had come back, that there wash dollar bills. Mama put every ter kitchen counter. She liked to ha count out the bills every Friday copy of Leonardo da Vinci's Co doing drawing after drawing of little models of the headstone polined up just right to catch the resulting to complete the book, Mama works da Vinci's "Codex of Bird objects that might incorposite that might incorposite that might incorposite that might are linstruct the students designed."	s on a design for a tombstone. She uses Leonardo ls" as a reference. As a class, brainstorm other
	4. Have each student presen	at his/her design to the class.
CONCLUDING ACTIVITY	abilities and interests, especially	scribed as someone who has a wide range of in the arts and sciences. Ask the students why often called a true Renaissance person.

LESSON PLAN: THE CODEX ON THE FLIGHT OF BIRDS

Date:	Class:	Unit:
- 4.00.	C.455.	Uu .

EXTENSIONS:	Research and write a report about the life and accomplishments of Leonardo da Vinci. Find out more about da Vinci's notes in the <i>Codex</i> . How do they compare with what we know about flight today? Create your own codex similar to da Vinci's by drawing birds from life.
CHECK FOR UNDERSTNADING:	Students write a short report about what they learned about Leonardo da Vinci and the Codex on the Flight of Birds.
MATERIALS:	Smack Dab in the Middle of Maybe by Jo Hackl Computer and projector or smartboard for video presentation Drawing paper Codex of Birds – Samples Handout Paper, pencils, markers, colored pencils, watercolors, or other media for creating designs
TECHNOLOGY:	Watch videos online.
COMMON CORE STANDARDS:	CCSS.ELA-LITERACY.RI.6-8.7 CCSS.ELA-LITERACY.SL.6-8.1 CCSS.ELA-LITERACY.SL.6-8.2 CCSS.ELA-LITERACY.RH.6-8.2 CCSS.ELA-LITERACY.RH.6-8.4 CCSS.ELA-LITERACY.RH.6-8.5