

AEROSPACE DAY







PREK, B 1, 2, 3, 4, 5

Grade Level Check List	
1. Select method of rotation to (Please refer to handout entitled "Rota	use. ation Methods" for descriptions of rotation options.)
2. Determine start and end time (It might be necessary to resume after	recess, lunch, and/or intervention.)
3. Select 4 activities. (Use the ones listed on the attached has	andout or replace them with ones you prefer.)
4. Determine time allotment for (Ex: 20 minutes per activity + 5-10mi (Ex:30 minutes per activity + 5-10 mi (Ex:30 minutes per activity. No rotation	in for lining up and rotating)or in for lining up and rotating)or
5. Gather supplies needed for a	activities.
Mrs. Sharif. (a) Clip copy paper to works (b) Attach note stating	sheet. (Extra paper will be returned.) 1. your name. (I need know to whom to return the copies.) 2. number of copies needed. 3. special notes. (Ex: 2 sided)
7. Familiarize yourself with property (Make the paper airplane. Can it be few times? How will you handle cle	coject/activity by making a sample or viewing it. made it allotted time? Will students have enough time to test it a can up time?)
8. Prep and store supplies/mat (Ex: Teachers of lower grades might	erials, if necessary. need to precut.)
Send Reminder home, Frida (1 parent per class However, a parent (Duties: Parents help students imple	st on Aerospace Day - at least 1 parent per class. ay or Monday prior. In this likely not needed for DVD activity, but can help elsewhere.) The ment task correctly and answer questions as needed. Also, once Torderly manner, parent can walk them from class to class, if needed.

ROTATION METHODS

METHOD #1

- <u>Teacher</u> is stationary (remains in classroom). Teacher runs the same activity 4 times.
- Students rotate from classroom to classroom.
- Parent volunteer assists



Teacher #1



Teacher#2



Teacher#3



Teacher#4





METHOD #2

- Teacher & students are stationary (remain in classroom). Teacher runs all 4 activities.
- Parent volunteer assists.









Activity#2





METHOD #3

• Each classroom serves as a center.

(ex: classroom#1 is used for Loop Plane Activity)

(ex: classroom#2 is used for painting picture of space shuttle.) ...and so on.

Teacher, students and parent volunteer rotate. Teacher runs the activity already set up in each classroom that the group enters.



Classroom/Center#1



Classroom/Center#2



Classroom/Center#3



Classroom/Center#4



REMINDER TO:

PREK & KINDERGARTEN ACTIVITIES

1. DVD + CLASS DISCUSSION

DVD Options to select from:

1. NEWS COVERAGE OF SPACE SHUTTLE COMING TO CALIFORNIA (This DVD is supplied by Mrs. Sharif.)

(<u>Types of discussions questions might be</u>: What is a shuttle? Where did it go? What is NASA? How would you persuade NASA to bring and store the shuttle in California? What was your favorite part of the experience? Why? What kind of job do you have to get to be part of the shuttle program? What skills do you need to learn in school that would help you achieve this goal?...etc)

- 2. MAGIC SCHOOL BUS SPACE ADVENTURES (approx: 30-35 min per episode)
- (a) Episode 1 "Gets Lost in Space"
- (b) Episode 2 "Out of This World
- (c) Episode 3 "Taking Flight"
- 3. Excerpt from a NOVA or NASA PROGRAM
- 4. Your Suggestions

2. EXPERIMENT & CHART ACTIVITY

(Refer to attached handout)

3. FOSS -MATERIALS & FLIGHT

(Refer to attached handout entitled "Foss & Flying")

- 5. ART "SHUTTLE LAUNCH" (Refer to attached handouts)
 Worksheet with coloring, cutting, gluing...

EXPERIMENT & CHART ACTIVITY

- 1. Ask
- 2. Test. (Students stand and drop the papers at a time to see which falls faster. Shape test should be done with one balled up paper, and one flat. Weight test can be done with penny taped to one sheet.)
- 3. Record Answer

Preparation: 1. Create large charts for each class to record answers What Affects Movement?

	YES	NO
SHAPE?		
SIZE?		
COLOR?		
WEIGHT?		

2. Distribute paper (12 sets so students work in pairs.)

(Use White construction paper so colored construction paper can be substituted in for the "color" test

FOSS & FLYING

- 1. Ask
- 2. Test (Students work in pairs and fly both types of airplanes multiple times.) (Difference = material)
- 3. Observe Distance Traveled
- 4. Close with Results of Tests

Preparation:

Pre make 24 airplanes.
 of one material (paper) +
 of a different material (ex: aluminum foil -doubled for thickness)

(Planes should be same size and shape. Only variable is type of material used.) (Make a few extra planes in case some get destroyed.)

2. Draw numbers or lines on ground to reflect greater distance.

*If there is extra time, use overhead or Hover Cam to teach students how to fold sheet of paper into a very basic airplane.

(V) Foss

Windsor Hills Aerospace Project Unit Plan



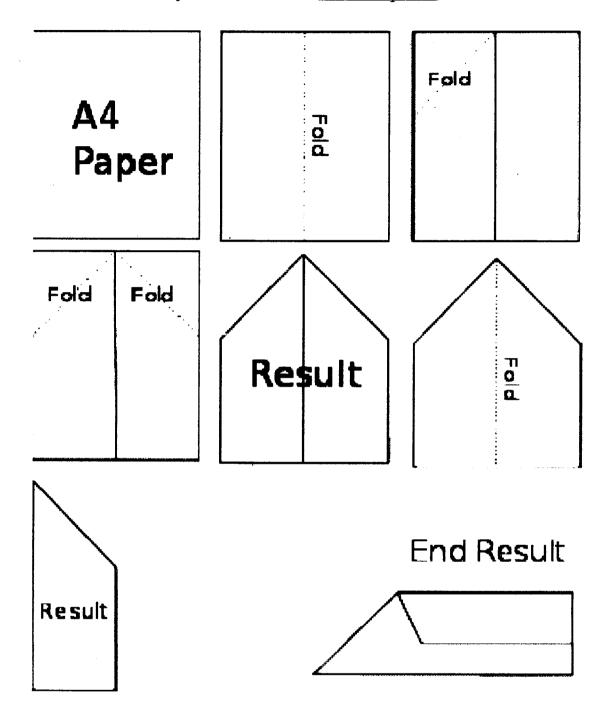
		Culminating Project
	Describe the culm	ninating Aerospace Project your students will engage in Printly describe what students are delin-
	Fly pla	what science skills and knowledge will students learn as a result of this project? The planes The planes
		What science skills and knowledge will students learn as a result of this project?
/ (Observation	3 prediction
<i>3</i>	Measurer	ment 4 Discription

	Unit Plan Identify the 3 FOSS lessons that will lead up to culminating project:					
	Title of FOSS Lesson	Title of FOSS Lesson	Title of FOSS Lesson			
r _o	Material; Gravity (10 non)	2109 (10min)	Thrust Lift (Kown)			
	Brief Description of Lesson:	Brief Description of Lesson:	Brief Description of Lesson:			
c	Sense - material Virgo - Diep Volat 100 at 101 ? Volat Groving Wilging Draw Discuss What happene	different speeds?	· STATON balling paper = thrust · Create something with a flap (bentys flat) = Lift helps · VOCabi Thrust, Lift			
	Key Concepts:	Key Concepts:	Key Concepts:			
	Enavity	Inac.	indust & Lift			

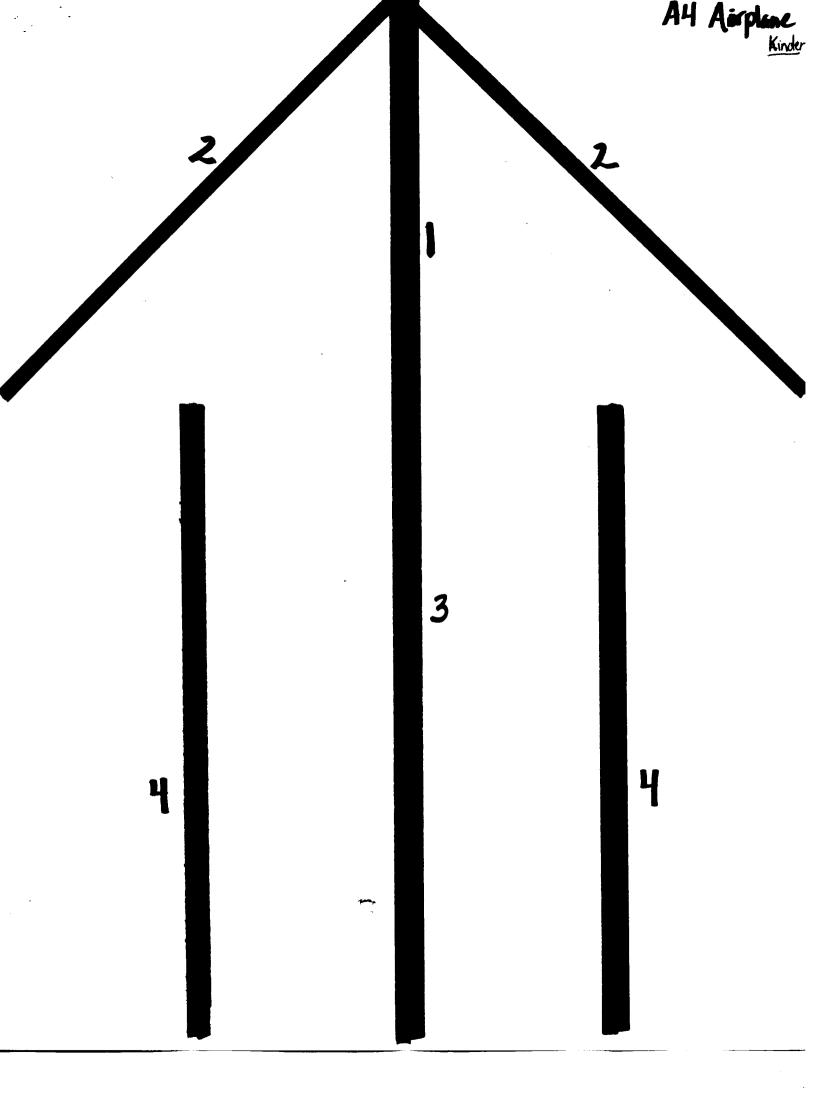
224		Standards	
	What CONTENT standards does this unit cover?	What Investigation & Experimentation standards does this u cover?	nit
	Materials	a, b, c, d, e	

MAKING PAPER AIRPLANES

How to Make a A4 Airplane



Write NAME on airplane. FLY it. DECORATE it with markers, crayons, stickers, or paint.



TITLE: SHUTTLE LAUNCH

ART LESSON: TEXTURE

Space Week

STUDENT:______

