		_		
Name:	Period:	Date:		
Paper Helicopters)		
Part A: Observing & Inferring				
Carefully cut out the pattern for "helicopter A" and find out how it works.	follow the assembl	y directions. Test the device and		
1. Record your <i>observations and inferences</i> of som	e possible things t	hat could affect the flight.		
2. These things that could affect the flight are called	I			
Part B: Comparing and Contrasting				
Carefully cut out the pattern for "helicopters B & C"	and follow the as	sembly directions.		
3. What is the <i>same</i> about B, and C:				
Part C: Controlled variables				
If we were going to have a race between helicopters B and	d C, there are things	s we must keep the same so the contest is		
fair. 4. These are called	variable			
5. List the things (besides the thing listed above) that we	must keep the same	e so the contest is fair:		
Part D: <u>Identifying variables</u>				
6. The one thing that is different between helicopters B &	¢ C is			
7. This thing that is different is called the		variable		
8. The thing about the helicopters that we will measure a	as a result of this dif	ference is		
9. This is called the		variable		

10. The way we will measure the responding variable is called the _____

			Period:	Date:
Paper Helico	pters			
Part E: <u>Que</u>	stioning			
11. The ques	stion we want t	to answer is called the	e	
12. Use the v	variables for B	& C to write a resear	ch question on the lines	below. Insert the things about the helicopte
Part F: <u>Hyp</u>	othesizing			
13. To write a hypothesis we need to write an "				" statement
14. Write yo	ur hypothesis f	for B & C. Insert the	things about helicopters	B & C
Part G: Exp				
			he helicopter that <u>hits f</u> ie helicopter that <u>hits la</u>	
Trial	В	С		3
Trial	ı		· ~	2
Trial	ı			NOTE: The helicopter
Trial 1 2	ı			NOTE: The helicopter that hits <i>first</i> has a
Trial 1 2 3	ı			NOTE: The helicopter that hits <i>first</i> has a <i>shorter</i> flight time and
Trial 1 2 3 4	ı			NOTE: The helicopter that hits <i>first</i> has a <i>shorter</i> flight time and the one that hits
Trial 1 2 3 4 5	ı			NOTE: The helicopter that hits <i>first</i> has a <i>shorter</i> flight time and
Trial 1 2 3 4 5 6 7	ı	C		NOTE: The helicopter that hits <i>first</i> has a <i>shorter</i> flight time and the one that hits <i>second</i> has a <i>longer</i>
Trial 1 2 3 4 5 6 7 Part H: An	B alyzing Data	C		NOTE: The helicopter that hits <i>first</i> has a <i>shorter</i> flight time and the one that hits <i>second</i> has a <i>longer</i>
Trial 1 2 3 4 5 6 7 Part H: An	alyzing Data	C C	for to see its affect on	NOTE: The helicopter that hits <i>first</i> has a <i>shorter</i> flight time and the one that hits <i>second</i> has a <i>longer</i> flight time
Trial 1 2 3 4 5 6 7 Part H: An 15. What fa 16. How did	alyzing Data	C B & C did you test	for to see its affect on	NOTE: The helicopter that hits <i>first</i> has a <i>shorter</i> flight time and the one that hits <i>second</i> has a <i>longer</i> flight time
Trial 1 2 3 4 5 6 7 Part H: An 15. What fa 16. How did Part I: Wri	alyzing Data ctor between this factor af	C B & C did you test ffect the flight time	for to see its affect on?	NOTE: The helicopter that hits <i>first</i> has a <i>shorter</i> flight time and the one that hits <i>second</i> has a <i>longer</i> flight time



F	Period:	Date:		
ine next to its def	inition)			
hypothesis If then		refutes research question supports		
Th	ne way the hypoth	nesis should be phrased		
Th	The effect you measure in an experiment			
Th	The things you must keep the same in an experiment			
A	A testable educated guess			
Wł	When experiments show the hypothesis is right, we say it -?- it What you want to answer by experimenting			
W				
Th	The way a research question should be phrased			
Th	The thing you change in an experiment			
A	A judgment based on the results of an experiment			
W	nen experiments	show the hypothesis is wrong, we say it -?- it		
e sentences.	Carr			
our experiments	with helicopt	ers <u>B and C</u>		
	we wanted	to answer was: "How does blade		
		was "If blade length		
he		variable between		
the blade. The _		variable		
The		based on the		
lade length increa	ses flight time	(increases or decreases)		
	ine next to its def How does affect hypothesis If then independent variable The The A Wh Wh E sentences. or not at all our experiments he The The The The The The The	ine next to its definition) How does affect hypothesis If then independent variable The way the hypothem of the effect you mea The things you mus A testable educated when experiments What you want to a one of the thing you chan one of the experiments The thing you chan one of the experiments with helicopte one of		