Geometry: Unit 3 Reasoning

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SLO: I can identify the hypothesis & conclusion for a conditional statement and explain why conditional statements are useful in life and in math – especially geometry.

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TABLE OF CONTENTS:	10/31 Conditional Statements
NEW NOTEBOOK PAGE:	10/31 Conditional Statements - Name SLO: I can identify the hypothesis & conclusion for a conditional statement and explain why conditional statements are useful in life and in math - especially geometry.
Assignment Sheet: 10/31 C 10/31 H	W: Conditional Statements Pue 10/31 W: Conditional Statements Pue 11/1
DO NOW SHEET: Name Copy	y, Date, Period, and complete the statement: "If I am caught with my phone out, then "
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LESSON: (Record all work in your notebook.)

Notes (Copy into your notebook and draw a box around them)	
Vocabulary: <u>Conditional Statement</u> : "If <u>(hypothesis)</u> then <u>(conclusion)</u>	<i>"</i>
<u>Conjecture</u> : "If-then" statement written based on observation. Conjectures are unproven ideas. <u>Theorem</u> : "If-then" statement that has been proven <u>Counter Example</u> : A case when a conditional statement is not true	

***** (1) Copy each statement below. For each conditional statement, circle the hypothesis and underline the conclusion. Give a counterexample if the statement is not always true.

(a) If a costume is really good, then more candy is given.

- (b) If it is Halloween, then it is October 31.
 (c) If it gets suddenly colder, then a ghost is present.
- (c) If it gets suddenly colder, then a ghost is present.
 (d) If lines are parallel, then corresponding angles are equal.
- (e) If a reason makes sense, then it must be true.

(2) Why are conditional statements important in a court of law? In a scientific experiment?

SLO: I can identify the hypothesis & conclusion for a conditional statement and explain why conditional statements are useful in life and in math – especially geometry.



HOMEWORK <u>Copy onto a paper that can go home:</u> <u>Write an equation for a line parallel to:</u> 1 - Line a (-5, -5), (5, 5) through point: (-2, -5), 2 - Line b (-1,4), (-3, 0) through point: (0, 0) 3 - Line c (5, 0), (0, 5) through point: (-5, 4) Write an equation for a line perpendicular to: 4 - Line d (-3, 3), (2, -2) through point: (-1, 1), 5 - Line: (1, 5), (-1, 5) through point: (0, 0), 6 - Line: (5, -3), (-5, 2) through point: (-1, 0)

