CONCEDT: NIAMINIO	ALIZANICO MUTLI	CLICTITUENTO
CONCEPT: NAMING	ALKANES WITH	2021110EN12

• When naming compounds, name consists of: _____ chain, name of substituents and their _____. □ Substituent: any alkyl group that ______ off the parent chain. - Name format: location-substituent-parent **EXAMPLE**: Give systematic name of the following alkane. **STEP 1:** Find the _____ carbon chain (parent chain) and assign name according to the prefixes. □ If a tie between longest chains, choose chain with more substituents. **STEP 2:** Assign name to all the substituents. **STEP 3:** Start numbering the chain from the _____ substituent. □ If a tie between substituents, compare the next closest substituent. □ If still a tie, number in _____ order. **STEP 4:** Assign (location) for each substituent. □ When more than 1 identical substituents, use prefixes: _____ 2, ____ 3, ___ 4.

STEP 6: Use ______ to separate numbers from numbers, and _____ to separate letters from numbers.

STEP 5: Name substituents in _____ order; prefixes do not count.

□ Letters are not separated from letters.

CONCEPT: NAMING ALKANES WITH SUSTITUENTS

PRACTICE: Provide a systematic name for the molecule.

PRACTICE: Draw a structure for 2,6-dimethyl-4-propylnonane.

PRACTICE: Draw a structure for 4-tert-butyl-3-isopropyl-2-methyloctane.