Analytical issues in the study of verb–noun compounds: How does Akan fit in?

Article in Acta Linguistica Hungarica - April 2019
DOI: 10.1556/2062.2019.66.1.1

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Analytical issues in the study of verb-noun compounds: How does Akan fit in?

Clement Kwamina Insaidoo Appah
Accepted version, 31-08-2018

This paper highlights three issues in the study of verb-noun compounding and shows how data from Akan (Niger-Congo\Kwa, Ghana) help answer the relevant questions for the language. The issues, which mainly concern the exocentric subtype, are: one, the syntactic category of the left-hand constituent and that of the whole compound; two, whether the formation of verb-noun compounds is a matter of syntax or morphology; and three, how to distinguish between verb-noun compounds and verb phrases, given their structural similarity. Although these issues have come up somehow in the literature on Akan verb-noun compounds, they have not been deliberately targeted for discussion. This paper fills the gap. It is shown that the left-hand constituent is definitely a verb. This raises the question of how to account for the syntactic category of the exocentric subclass of the compound, given that the compound is not a hyponym of the right-hand nominal constituent whose syntactic category may be assumed to percolate to the whole. It is also argued that, per the criteria in the literature, the formation of Akan verb-noun compounds has to be a matter of morphology and not syntax. Finally, it is shown that there are formal and semantic basis for distinguishing verb-noun compounds from verb phrases in Akan.

KEYWORDS: Akan, compositionality, syntactic category, Verb-Noun compound, Verb phrase

1. Introduction

The purpose of this paper is to highlight three central theoretical issues in the study of Verb-Noun (henceforth, V-N) compounds and to show how data from Akan (Niger-Congo\Kwa, Ghana) helps us answer the relevant questions for the language. The theoretical discussion in this paper builds on descriptive work done in Appah (2016) which was based on data drawn from a variety of sources which are described below in Section 2.

V-N compounds are not very common in the languages of the world, except in Romance languages. However, they have theoretically interesting properties that have engaged the attention of researchers (cf. Marchand 1969; Bauer 1980, 1983; Contreras 1985; Di Sciullo & Williams 1987; Corbin 1992; Lieber 1992; Scalise 1992; Braun 2009; Fradin 2009; Kornfeld 2009; Yoon 2009; Basciano; Kula & Melloni 2011; Appah 2016; Desmets & Villoing 2009; Gast 2008). For example, in their account of V-N compounding, Basciano; Kula and Melloni (2011, 218) observe that such compounds “represent a challenging phenomenon for contemporary grammar theory”. One reason given for this observation is that V-N compounds in the three languages that they study are exocentric, lacking structural and semantic heads, and thus defying the endocentricity principle underpinning Merge (cf. Chomsky 1995). It has to be pointed out, though, that there are endocentric V-N compounds as well (Appah 2016; Gast 2009). However, like other endocentric compounds, accounting for the syntactic category of endocentric V-N compounds is pretty straightforward because their nominals syntactic category can be assumed to emanate from their right-hand constituents of which they tend to be hyponyms.

Another potentially challenging set of features of V-N compounds is the nature as well as the formal and semantic relations between the constituents (Basciano; Kula & Melloni 2011; Desmets & Villoing 2009), and also the overall semantics of the compound. For instance, it has been observed that V-N compounds tend to have negative meanings/connotations and are used in pejorative, derogatory, coarse, vulgar and/or playful/humorous contexts (Marchand 1969; Basciano; Kula & Melloni 2011; Appah 2016; Gast 2009).
Generally, we find three core issues that researchers have sought to deal with in discussing V-N compounding. The first issue concerns the form and syntactic category of especially the left-hand constituents and, by extension, that of the whole compound. This issue is relevant for the exocentric subclass of V-N compounds and is important because most analysts typically adopt a source-oriented perspective (cf. Zager 1981), where properties of a complex form derive compositionally from its constituents. This perspective suggests that we should expect the head of the nominal V-N compound to be a noun. Yet, the first constituent of the compound, which is the selecting element in the corresponding verb phrase, is a verb and, the whole compound is not a hyponym of the right-hand nominal constituent. Therefore, for the exocentric subgroup, it is important, to answer the question of whether the left-hand constituent is nominalized prior to becoming part of the compound, thus making it a Noun-Noun (N-N) compound, or there exists a post-compounding nominalization process that turns a compound of some other syntactic category into a noun (cf. Bauer 1980; Di Sciullo & Williams 1987; Corbin 1992; Lieber 1992; Ackema & Neeleman 2004). This is particularly interesting for Akan, because Akan compounds are invariably nominal (cf. Christaller 1875; Dolphyne 1988; Anyidoho 1990; Anderson 2013). Therefore, we need to be able to tell how the exocentric V-N compounds become nouns, where there is no head with matching nominal features.

The second issue relates to the question of whether the formation of V-N compounds is a matter of syntax or morphology. This engenders interesting theoretical debates, which ultimately hinges on the analyst’s view of the nature of the relationship between morphology and syntax (Di Sciullo & Williams 1987; Corbin 1992; Lieber 1992; Scalise 1992; Fradin 2009; Kornfeld 2009; Appah 2015). In fact, there seems to be no theory-neutral way of discussing this issue. It is, therefore, fair to suggest that this question is important mainly for analysts who assume a modular view of grammar, where morphology and syntax are strictly segregated modules of grammar.

The third issue, which is closely related to the second one, has to do with how to clearly distinguish between a V-N compound and a verb phrase (VP), given the fact that the syntactic category and order of constituents in V-N compounds pattern after the verb-object word order in languages that have V-N compounds (cf. Dolphyne 1988; Fradin 2009; Kornfeld 2009; Yoon 2009; Basciano; Kula & Melloni 2011; Appah 2016; Gast 2009). I will argue that, aside from what the regular tests for lexical integrity or syntactic atomicity reveal about the wordhood of the V-N constructs at issue, there are three reasons why the Akan V-N constructs have to be regarded as compounds and not phrases. First, they tend to be semantically opaque, whilst phrases are usually compositional. Secondly, we do not find verbal inflection on the verbs in V-N constructs, although inflectional marking on verbs is obligatory in Akan syntactic constructions, except where the event designated is stative or habitual. Thirdly, a particular tonal melody marks the exocentric subclass of V-N compounds to the exclusion of analogous Akan VPs.

The rest of the paper is organized as follows: In section 2, I present a summary of the descriptive facts of Akan V-N compounds, as discussed in Appah (2016). The main point of this paper is dealt with in section 3, which covers the three core issues mentioned above. I review how the issues have been dealt with in the literature and then show how the relevant questions can be answered for Akan. Section 4 concludes the paper.

2. Akan V-N Compounds and their properties
Akan V-N compounds have been studied for nearly a century and a half (cf. Christaller 1875; Dolphyne 1988; Abakah 2006). The various strands of research have recently been brought together in a study by Appah (2016). In this section, I review important parts of that paper, to provide the needed background to the present study, focusing mainly on the data adduced to support the arguments therein. I do not present any new argument or attempt to defend the
claims made in that paper about Akan V-N compounds, except where the particular point is important for the focus of this paper.¹

Beginning from Christaller (1875), many constructs had been posited as exemplars of V-N compounds. However, Appah (2016) observing that true Akan V-N compounds usually have simplex consonant-initial left-hand verbal constituents and right-hand noun constituents, which are also mostly simplex, showed that only the twelve constructs in Table 1 qualify as V-N compounds out of the many posited.²

Table 1. V-N compounds in the Akan literature (Christaller 1875; Dolphyne 1988; Abakah 2006)

<table>
<thead>
<tr>
<th>Compound</th>
<th>Constituents</th>
<th>Gloss</th>
<th>Translation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>kyédédé</td>
<td>kyé3-àdédé</td>
<td>to share-thing</td>
</tr>
<tr>
<td>2</td>
<td>bòdédé</td>
<td>bò-àdédé</td>
<td>to make-thing</td>
</tr>
<tr>
<td>3</td>
<td>kóatié</td>
<td>kó-àyié</td>
<td>to attend-funeral</td>
</tr>
<tr>
<td>4</td>
<td>diabóro</td>
<td>di-àbóro</td>
<td>to use-malice</td>
</tr>
<tr>
<td>5</td>
<td>simá’sém</td>
<td>simá-àsém</td>
<td>to hide-matter</td>
</tr>
<tr>
<td>6</td>
<td>gyiná bédó</td>
<td>gyiná-èbèdó</td>
<td>to stand-place</td>
</tr>
<tr>
<td>7</td>
<td>dábéré/ábéw</td>
<td>dá-béré</td>
<td>to sleep-place</td>
</tr>
<tr>
<td>8</td>
<td>tèbédó</td>
<td>tè-bédó</td>
<td>to live-manner</td>
</tr>
<tr>
<td>9</td>
<td>twá bó</td>
<td>twá-bó</td>
<td>to cut-stone</td>
</tr>
<tr>
<td>10</td>
<td>bèbédó</td>
<td>rè-bédó</td>
<td>to do-manner</td>
</tr>
<tr>
<td>11</td>
<td>trá bédó</td>
<td>trá-bédó</td>
<td>to sit-place</td>
</tr>
<tr>
<td>12</td>
<td>súsi dià</td>
<td>susu-diá</td>
<td>to measure-stick</td>
</tr>
</tbody>
</table>

The remaining constructs in (1) from Christaller (1875, 26-27), (2) from Dolphyne (1988, 123) and (3) from Abakah (2006, 20) are not V-N compounds.

(1) Christaller’s (1875) examples of Akan V-N compounds

<table>
<thead>
<tr>
<th>Compound</th>
<th>Constituents</th>
<th>Gloss</th>
<th>Translation</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. akyedó</td>
<td>a-kye-de</td>
<td>NMLZ-dash-thing</td>
<td>‘a gift’</td>
</tr>
<tr>
<td>b. atubóa</td>
<td>a-tú-boa</td>
<td>NMLZ-fly-animal</td>
<td>‘an animal which flies’</td>
</tr>
<tr>
<td>c. atesem</td>
<td>a-te-sem</td>
<td>NMLZ-hear-matter</td>
<td>‘a word heard, hearsay’</td>
</tr>
<tr>
<td>d. ahénne</td>
<td>a-hen-ne(e)</td>
<td>NMLZ-king-thing</td>
<td>‘the royal insignia’</td>
</tr>
<tr>
<td>e. ahensem</td>
<td>a-hen-sem</td>
<td>NMLZ-king-matter</td>
<td>‘a king’s doings’</td>
</tr>
<tr>
<td>f. atetedé</td>
<td>a-tete-de</td>
<td>NMLZ-ancient-thing</td>
<td>‘a thing of the old time’</td>
</tr>
<tr>
<td>g. atetsem</td>
<td>a-tete-sem</td>
<td>NMLZ-ancient-matter</td>
<td>‘a story of ancient times’</td>
</tr>
</tbody>
</table>

(2) Akan V-N compounds (Dolphyne 1988, 123)

<table>
<thead>
<tr>
<th>Compound</th>
<th>Constituents</th>
<th>Gloss</th>
<th>Translation</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. ayédó</td>
<td>à-yé-àdó</td>
<td>NMLZ-do-thing</td>
<td>‘object’</td>
</tr>
<tr>
<td>b. atubóá</td>
<td>à-tú-àbóá</td>
<td>NMLZ-fly-animal</td>
<td>‘a fly’</td>
</tr>
<tr>
<td>c. asé’nìúá</td>
<td>à-séén-nìúá</td>
<td>NMLZ-hang-tree/wood</td>
<td>‘crucifix’</td>
</tr>
<tr>
<td>d. abòdií</td>
<td>à-bò-dií</td>
<td>NMLZ-call-name</td>
<td>‘title’</td>
</tr>
</tbody>
</table>

¹ I am grateful to a reviewer for the close reading of the content of this section of this paper and the many suggestions for modification. However, given that this section is simply a review of previous work to provide the needed background to the present study, any suggestion that does not have a bearing on the focus of the present study is not dealt with.

² The tone marks on all the constructs and their constituents are the surface tonal melodies.

³ This verb is used only in the context of gift giving. That is, whatever is given when this verb is give is never expected back from the recipient.
The reasons for excluding these exemplars are varied (Appah 2016, 6-8). First, the constructs in (1) and (2) are excluded because their left-hand constituents, which are otherwise simplex and consonant-initial when they occur in isolation, bear affixes in the complex forms. If the prefixes are removed, the remainder do not constitute well-formed compounds. For example, à-kyé-dé (1a) and ãyéédé (2a), without their prefixes, become ill-formed (i.e., *kyéédé and *yédé), although in isolation, the verbs are consonant-initial (i.e., kyé ‘to gift’ and ýé ‘to do’). This is what distinguishes these constructions and all others in (1) and (2) from the V-N compounds in Table 1, which do not require affixes to be well-formed (cf. Appah 2016, 8).

In the same way, each construct in (3) has either a suffix (3a) or a prefix (3b-d), which appears to nominalize a VP (cf. Appah 2016, 8). Thus, they are not V-N compounds.

(3) Akan V-N compounds (Abakah 2006, 20)

<table>
<thead>
<tr>
<th>Compound</th>
<th>Constituents</th>
<th>Gloss</th>
<th>Translation</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. nimdè́</td>
<td>nimú-àdè-(é)</td>
<td>know-a thing-NMLZ</td>
<td>‘knowledge’</td>
</tr>
<tr>
<td>b. àpágyá</td>
<td>à-pá-ògyá</td>
<td>NMLZ-strike-fire</td>
<td>‘a thing for striking fire/matches’</td>
</tr>
<tr>
<td>c. ebisàdè́</td>
<td>è-bisà-àdzé</td>
<td>NMLZ-ask-thing</td>
<td>‘a request’</td>
</tr>
<tr>
<td>d. nkàsàànimú</td>
<td>n-kàsà-ànimú</td>
<td>NMLZ-speak-face</td>
<td>‘rebuke/chiding’</td>
</tr>
</tbody>
</table>

The point really is that the affixes that appear on the rejected exemplars are nominalizing affixes and not the regular nominal affixes in Akan which may mark number and are usually optional. Indeed, some of the actual V-N compounds, like (3)bóádè́ ‘creator’, bear such nominal affixes, which are optional, because they are not nominalizing. As will be discussed in section 3.1, the nominal syntactic category of the V-N compound has been suggested to be a holistic property that is inherited from the compounding process in Akan which is a nominalization strategy (cf. Appah 2015). Thus, there is no need for such obligatory nominalizing affixes in Akan compounds.

Secondly, some exemplars must be excluded from the list of Akan V-N compounds because they “simply do not match the descriptions they are supposed to instantiate” (Appah 2016, 8). The constructs in (1d-g), for instance, do not contain verbs. This is interesting, because Christaller (1875, 26-27) described the parent group of these compounds as “[c]omounds of a noun with an attributive noun in the possessive case before it’. This would make them N-N compounds (cf. Appah 2016, 8). What is puzzling, however, is that Christaller also argues that “[t]he qualifying component is a verb” that “must be rendered by an adjective sentence” (Christaller 1875, 26), suggesting that the verbs correspond to adjectives in English. Obviously, Christaller does not offer any clarity on the matter.

Regarding Dolphyne’s description of these compounds as “verb plus object compounds” (Dolphyne 1988, 123), Appah (2016) observed that that is not totally accurate because, in exemplars like àtúbóá ‘a fly’ and asënììá ‘crucifix’ in (2), the noun constituents are not objects of the verbs, but heads of relative clauses, as shown in (4a-b).

(4) a. àbóá àá ò-tú
  animal REL 3SG-fly
  ‘an animal that flies’

  b. diúá àá yé-dé séñ nípá
  wood REL 3PL-use hang human beings
  ‘wood for hanging human beings’

Finally, on the question of tone in such compounds, Dolphyne (1988) and Abakah (2006) gave conflicting accounts. Whilst Dolphyne observed that, notwithstanding its tonal pattern in isolation, the verb constituent is invariably high, Abakah argued that the first constituent is
invariably realized on low tone in the compound. The data, however, do not support either position. Appah (2016) observed that tone may indeed be used to distinguish some members of this class of compounds from phrases (see (22)), but the tonal pattern of the first constituents of V-N compounds is a bit more diverse than presented in previous literature.

Given the foregoing, Appah (2016) made two observations: one, that previous accounts were not adequately thorough; two, that Akan V-N compounds are not as productive as previous accounts presented them, because out of the 27 putative V-N compounds posited by the three scholars (Christaller 1875; Dolphyne 1988; Abakah 2006), only 12 (44.4%) of them (Table 1) are V-N compounds, the rest were simply misclassified.

Appah (2016) provided additional examples of V-N compounds from a variety of sources, including the Akan translation of the Universal Declaration on Human Rights, a children’s reader on fishing, and an Akan translation of Plato’s apology of Socrates. The set of Akan V-N compound data were subjected to different levels of formal and semantic analysis, yielding varying classes of Akan V-N compounds. Concerning the form of the constituents, it is shown that both of them tend to be simplex forms and that the nouns may be the subject or the object of the verb, depending on their transitivity status. However, a few of the nouns are not core arguments of the verb but adjuncts, naming, for example, the location of the action/event designated by the verbal constituent (cf. Appah 2016, 11-12).

Various semantics classes of V-N compounds are distinguished based on the relation between the constituents. They are compounds in which the noun constituent may be the location of the action or event designated by the verb, the affected object, the instrument used for the action of the verb, etc. These are summarised in (5).

(5) Semantic patterns in Akan V-N compounds (Appah 2016, 13-14)

a. V-N compounds, where N is location of action/event V
   i. dá-àmómá to sleep-hole ‘an animal which dwells in a hole’
   ii. ká-àkyírè to remain-behind ‘lastborn/youngest family member’
   iii. to-bèw to put-place ‘location (where something is put)’
   iv. dá-dùà to lie-wood ‘imprisonment/incarceration’
   v. òsù-òxè to lie-place ‘position/sleeping place’
   vi. dì-bèá to assume-place ‘position/rank’
   vii. tè-bèá to live-place/nature ‘state/(living) condition’
   viii. gynà-bèw to stand-place ‘position/standing place’
   ix. tènà-bèá to sit-place ‘sitting place’

b. V-N compounds, where N undergoes/is affected by action/event V
   i. kùn-kùn to kill-hunger ‘hunger killer/a species of maize’
   ii. kyé-àdèé to share-thing ‘generous person’
   iii. kò-nsùò to fetch-water ‘one who fetches water’
   iv. bò-òrè to hit/plait-hair ‘one who plaits hair’
   v. sùmà-sèm to hide-matter ‘secret’

c. V-N compounds, where N is used for/in action V
   i. sùsù-duà to measure-stick ‘standard/yardstick/measuring rod’
   ii. dì-àbòró to use-malice ‘malicious person’
   iii. bò-nsùò to hit-water ‘professional car wash(er)’
   iv. twà-bò to cut-stone ‘a stone by which gold is tried’

d. V-N compounds, where N is created by/results from action/event V
   i. kyé-pèí to share-portion ‘portion/lot/allotment’
   ii. bò-òdèé to create-thing ‘creator’

e. V-N compounds, where N is the goal of action V
   i. kò-òyìí to attend-funeral ‘one who attends funerals’
The final distinction is the crucial one between endocentric V-N compounds, where the whole compound is a hyponym of the right-hand constituent, as in (6), and exocentric V-N compounds, presented in (7), which are not hyponyms of either constituent.

(6) Endocentric V-N compounds in Akan (Appah 2016, 14-16)
   a. sísù-duá to measure-stick ‘standard/yardstick/measuring rod’
   b. tó-béó to put-place ‘location (where something is put)’
   c. dà-héré to lie-place ‘position/sleeping place’
   d. kyé-péí to share-portion ‘portion/lot/allotment’
   e. dì-béá to assume-place/rank ‘position/rank’
   f. té-béá to be-manner/nature ‘state/(living) condition’
   g. gyíná-bévé to stand-place ‘position’
   h. sùmá’sém to hide-matter ‘secret’
   i. twá-bó to cut-stone ‘a stone by which gold is tried’
   j. téná-béá to sit-place ‘sitting place’

(7) Exocentric V-N compounds in Akan (Appah 2016, 14-16)
   a. dà-ámoná to sleep-hole ‘an animal which dwells in a hole’
   b. dà-duá to lie-wood ‘imprisonment/incarceration’
   c. ká-ákyiré to remain-behind ‘lastborn/youngest family member’
   d. kò-áyié to attend-funeral ‘one who attends funerals’
   e. kùm-kòm to kill-hunger ‘hunger killer/a species of maize’
   f. kyé-ádéé to share-thing ‘generous person’
   g. bó-ńsuó to hit-water ‘professional car wash(er)’
   h. kò-ńsuó to fetch-water ‘one who fetches water’
   i. bó-ńtiré to hit/plat-hair ‘one who plait(s) hair’
   j. dì-ábóró to use-malice ‘malicious person’
   k. bó-ádée to create-thing ‘creator/one who creates things’

The core issues, that are discussed in the next section are based on the data above.

3. The analytical issues in the study of V-N compounds
In this section, I discuss the three analytical issues in the study of V-N compounds, relating to the syntactic category of the left-hand constituents and of the whole compound (section 3.1), whether the formation of V-N compounds is a matter of syntax or morphology (section 3.2) and how V-N compounds may be differentiated from VPs (section 3.3). In each case, I first present the arguments in the literature and then show which position the Akan data lead us to support.

3.1 On the syntactic category of the left-hand constituents of V-N compounds
The issue of the word class of the left-hand constituent of V-N compounds has been topical in the literature and it is very important for understanding the properties of the exocentric subclass of V-N compounds. One reason why it is important to know the categorial affiliation of the left-hand constituents of V-N compounds, is language-internal facts. It is clear from the literature that usually the left-hand constituent is simplex (Basciano; Kula & Melloni 2011; Fradin 2009; Kornfeld 2009; Braun 2009; Appah 2016). Therefore, for languages that have mostly multifunctional V/N lexical items like Sranan (Braun 2009) or make extensive use of conversion like English (Bauer 1983; Gast 2008; Plag 2003), it is important that we have criteria for determining the lexical category of the left-hand constituent.

Some scholars, working mainly on Romance languages, hold the view that the left-hand constituents are nominalized, thus making them endocentric N-N compounds (cf. Scalise;

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4 This section builds on ideas in (Appah 2016, 21, n. 2).
Bisetto & Guevara 2005, 140; Rainer & Varela 1992; Bisetto 1999). Some argue, for example, that the left-hand constituents are agentive nominals which results from the deletion of agentive suffixes (Bisetto 1999) or the reanalysis of a previous inflectional suffix (Varela 1990).

Other scholars hold the view that the left-hand constituent is a verb and the head of a VP which acquires morphological structure through a reanalysis rule that turns VPs into nouns, yielding \([V_N][V_P]\) (Di Sciullo & Williams 1987, 79-83). The problem with this view, as pointed out in the literature, is that proponents “provide no independent evidence for the existence of such a reanalysis rule” (Braun 2009, 184). On her part, Lieber (1992, 67) argues for a zero nominal(izing) affix which turns an underlying VP into a noun, giving \([V_N][V_P]_\emptyset\), as in the case of French essuie glace “windshield wiper”, whose structure is discussed in section 3.2. This nominalization-of-VP-by-zero view is shared by Contreras (1985).

For Sranan, Braun (2009, 183) decided in favour of a verbal left-hand constituent for two reasons: first, a number of them are attested only as verbs in the sources of her data, and second, because all of them denote actions. The problem with the latter reason, however, is that it fails to acknowledge the fact that actions may also be expressed by action nominals (Comrie 1976; Koptjevskaja-Tamm 1993, 2006; Appah 2005), also called event/process nominals (Grimshaw 1990; Melloni 2006, 2007, 2010).

For those who hold the view that the left-hand constituent is a verb, there may be the added concern of determining the actual form of the verb, whether it is a root or a stem, if such a distinction is relevant in the language (Basciano; Kula & Melloni 2011; Bauer 1980; Fradin 2009; Kornfeld 2009). For example, for the Bantu language Bemba, Basciano; Kula and Melloni (2011, 221) argued that the V-N compound is formed by “conjoining a verbal stem, i.e. a verb root followed by a final vowel (formally matching the vowel attested in fully inflected verbs)”. A similar analysis is presented for Romance V-N compounds, which are said to be “formed by a verbal root plus a final vowel” (Basciano; Kula & Melloni 2011, 231), with on-going debate on whether it is a verbal theme (a stem plus a theme vowel) or the second person singular form of the imperative or the third person singular form of the present indicative (cf. Tollemache 1945; Varela 1990). For French V-N compounds, Desmets and Villoing (2009) argue that the verb forms have to be regarded as stems, based on their phonological properties. This is because the V-N verb forms are not marked for inflection. They observe that verbal lexemes are associated with a vector of different possible phonological representations and that “[t]he first stem is the default phonological stem for all verbs involved in the VN compounding rule” (Desmets & Villoing 2009, 95).

We see then that, mainly formal criteria are employed in identifying the syntactic category of the left-hand constituents of V-N compounds. The absence of semantic criteria was already noted by Yoon (2009) regarding studies on Spanish V-N compounds, when he writes that “few have taken into account the semantic properties of the [V+N] compound in Spanish” (Yoon 2009, 508). In their discussion of French V-N compounds Desmets and Villoing (2009) did not deviate very much from other researchers who do not pay much attention to the semantics of the constituents of the compound, especially the verb, aside from the observation that the verbal base lexeme of a V-N compound is dynamic, transitive and presents an agent/patient relation. I will also not deviate very much from previous approaches because relying on the form would serve us better than meaning because, as noted above, the same meaning may be expressed by two separate syntactic categories without a change in form.

The question of the categorial affiliation of the left-hand constituent of Akan V-N compounds has not been discussed directly, beyond Christaller (1875). Dolphyne (1988), Abakah (2006) and Anderson (2013) do not discuss the categorial status of the left-hand constituents, but we can tell that they regard them as verbs, because they use the labels verb-noun and verb-object compounds. However, as noted in section 2, Christaller’s view on this matter lacks clarity because Christaller (1875, 26-27) first groups the compounds at issue and some others under a broad category he characterizes as “[c]ompounds of a noun with an
attributive noun in the possessive case before it” [emphasis is original]. Within this group, he places V-N compounds under subgroup (b) about which he writes: “[t]he qualifying component is a verb; on dissolving such compounds the verb must be rendered by an adjective sentence” (Christaller 1875, 26). Thus, it is unclear whether Christaller regards the left-hand constituent as a verb, which is interpreted as an adjective, or as a deverbal noun with attributive function. Akan indeed has (stative) verbs which are rendered as adjectives in English, but the verbs that occur in these compounds (e.g. dà ‘to sleep’, ká ‘to remain’ and kò ‘to go’) do not belong to that class of verbs.

We see, then, that whilst tacitly agreeing that they are verbs, previous studies provide no evidence for this, making them not particularly helpful for the purpose of determining the syntactic category of the left-hand constituents.

Appah (2016) argued that there is no formal or semantic basis for assuming the deverbalization of the left-hand constituents of Akan V-N compounds because, as argued in section 2, the left-hand constituents of these compounds bear no formal marks of nounhood. For example, nominalized dà ‘to sleep’ and sùsù ‘to measure’ in (8) would be n-dà ‘sleep(ing)’ and n-sùsù-i ‘measuring’ respectively and the nasal nominal(izing) prefix is not optional. Therefore, to assume a nominal left-hand constituent in the well-formed compounds, without the nasal nominalizer, would be to claim that the nominal is formed through conversion. However, conversion has a rather doubtful status in Akan (cf. Appah 2013b), because all posited instances of conversion or functional change (cf. Obeng 2009, 107-108) are accompanied by tonal changes which may be deemed to be responsible for the category change. This suggests that, in the absence of any evidence of nounhood in the form of tonal changes, we may assume that a bare recognised verbal base has not changed its syntactic category.

\[(8)\] a. dà-àmònà / *n-dà-àmònà
sleep-hole
‘an animal which dwells in a hole’

b. sùsù-duà / * n-sùsù-duà
to measure-stick
‘standard/yardstick/measuring rod’

It has to be recalled that the left-hand constituents of those constructs that were excluded from the class of V-N compounds (section 2) bear affixes that show that they are not verbs and so the constructions they occur in cannot be V-N compounds.

Given the fact that the left-hand constituents of Akan V-N compounds are bare, the careful reader would point out that, strictly speaking, there are no marks of verbhood on them either. Indeed, it seems to me that the reason why there are no tense/aspect, mood and polarity (TAMP) markers on the left-hand constituents of the V-N compounds is that it is the stem of the verb which forms the compound, much in agreement with the view that Akan “[c]ompounds are made up of two or more stems” (Dolphyne 1988, 117). Besides, it is possible to deduce from the distribution of the bases that they are verbs because they can occur in syntactic constructions, still without any formal TAMP marking when designating habitual or stative events. This is shown in (9), where the verbs in the stative and habitual construction bear no tense/aspect markers, unlike those in the progressive and future constructions, which carry rè- and bè- as their respective markers.

\[(9)\] a. Kofi sùsù dùà.
Kofi measure.HAB stick
‘Kofi measures a stick’

b. Kofi rè-sùsù dùà.
Kofi PROG-measure stick
‘Kofi is measuring a stick’

c. Ama bò ètírè
d. Ama bè-bò ètírè
Ama hit.HAB hair
Ama FUT-hit hair

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known, category of the compound in languages that have V above, knowing the syntactic category of the left-hand constituent is crucial to the task of determining the syntactic category of the left-hand constituent is a property of Akan compounds per se.

For endocentric V-N compounds, the question of the syntactic category of the left-hand constituent is inconsequential because there is a head which ordinarily would be assumed to be the source of the nominal syntactic category. However, for the exocentric V-N compounds, establishing the verbal status of the left-hand constituent raises the question of how they receive their nominal syntactic category, given that they are not hyponyms of their right-hand nominal constituents. Here, it is worth noting that the issue of the syntactic category of Akan compounds in general has been dealt with in the literature. Appah (2015) has argued that because Akan compounds are invariably nominal, notwithstanding the syntactic category of the constituents, we have to assume that the nominal syntactic category is a property of Akan compounds per se. In other words, compounding in Akan is a nominalization strategy. Hence, no matter the category of the input, the output will be a noun; even two verbs forming a compound in Akan will result in a noun (Abakah 2006; Anderson 2013; Appah 2015; Dolphyne 1988). Thus, for Akan, whilst it is good to determine the syntactic category of the constituents, that determination is not at all needed for the purpose of ascertaining the source of the nominal syntactic category of the compound.

3.2 On constructing V-N compounds: syntax or morphology
The question of whether V-N compounds are formed in the syntax or in the lexicon engenders interesting theoretical debates among morphologists who assume a modular view of grammar, where morphology and syntax are two strictly ordered modules (cf. Rohrer 1977; Di Sciullo & Williams 1987; Lieber 1992; Corbin 1992; Ackema & Neelleman 2001, 2004; Fradin 2009). In the languages of the world, both the syntactic formation and the pre-syntactic lexical formation of V-N compounds have been defended.

In the Romance languages, scholars have attempted to find ways of determining whether a particular V-N construct is formed syntactically or lexically. One test formulated by Corbin (1992, 48-49), cited in Fradin (2009, 422), seeks to find out whether the V-N construct can occur in a well-formed sentence, where the verb of the V-N is the only verb and there is no need for any additional verb. If yes, then there is evidence of syntactic formation. Otherwise, they are assumed to be lexically formed and they are compounds.

With this view comes the suggestion that if a construction is formed syntactically, it cannot be a compound because, for Corbin (1992, 50), units that can be straightforwardly generated by

\[ \text{‘Ama plaits hair’} \quad \text{‘Ama will plait hair’} \]
\[ \text{e. Nana gyínà hò} \quad \text{f. Nana gyínà hò} \]
\[ \text{Nana stand.HAB there} \quad \text{Nana stand.STAT there} \]
\[ \text{‘Nana stands there’} \quad \text{‘Nana is standing there’} \]

This approach of using distribution to determine the syntactic category of the left-hand constituent is consistent with the approach in Braun (2009) where, based on their syntactic distribution, she decided that what appeared to be multifunctional V/N lexical items should be regarded as verbs because the forms in question are deployed in syntactic structure as verbs and not nouns. Thus, by means of their form and syntactic distribution, we have been able to show that the left-hand constituents of the Akan compounds at issue are verbs. This conclusion would still hold for Akan, even in the absence of verbal inflection on the left-hand constituents of the constructs under discussion.

\[ \text{‘Ama stands there’} \quad \text{‘Ama plaits hair’} \]
\[ \text{‘Ama will plait hair’} \]

\[ \text{‘Nana stands there’} \quad \text{‘Nana is standing there’} \]

\[ \text{Nana stand.HAB there} \quad \text{Nana stand.STAT there} \]

5 This is where the issue of the syntactic category of the left-hand constituents of V-N compounds shows differential significance for Akan as against other languages that have V-N compound. Generally the exocentricity of the relevant compounds in based on the fact that the most important element of the compound is a verb whilst the compound is a noun (cf. Basciano; Kula & Melloni 2011; Corbin 1992; Gast 2009; Lieber 1992), thus, as noted above, knowing the syntactic category of the left-hand constituent is crucial to the task of determining the syntactic category of the compound in languages that have V-N compounds, but for Akan the output syntactic category is known, ab initio.
other components of the grammar are not the concern of compounding. This expectation that a
compound will not be formed syntactically is encapsulated in what Fradin (2009, 417) calls
Principle A. See (10).

(10)  Principle A (Fradin 2009, 417)
Compounds may not be built by syntax (they are morphological).

It has to be pointed out that Fradin himself believes that “V+N compounds are constructed by
morphology” (Fradin 2009, 423).
When one attempts to apply Corbin’s (1992) diagnostic, it quickly becomes clear that it is not
possible for the Akan V-N compound to occur in a sentence where the left-hand V constituent is
the only verb in the construction. Thus, the examples in (11), which are constructed for
illustration, are ungrammatical because tó ‘to place on/at’, which is part of a word, is the only
verb in what is supposed to be a syntactic construction.

   3SG-put-place       Kofi put-place

This test can be applied to all the examples. That is, for each accepted Akan V-N compound, if
we added a subject to form a syntactic construction, where the verb in the V-N compound is the
only verb, the resultant construct would be unacceptable. Where such a construct appears to be
acceptable, it would be because, it is a completely different construction and the meaning woul
dho. This is the case for the examples in (12).

(12) a. Kofi súsú dúá.  b. Kofi súsú-dúá
    Kofi measure.HAB stick                Kofi measure-stick
    ‘Kofi measures a stick’                Kofi’s measuring stick (yardstick)

Example (12a) shows that it may be possible to have a syntactic construction in which the same
verb in the compound is the only verb in the construction. The difference, however, is that the
resultant construction is completely different, as the meaning (‘Kofi measures a sick’) shows.
Here, again, we assume that the verb is in the habitual because there is no formal marking for
any other tense/aspect and the tonal melody is consistent with the habitual. In (12b), where súsú-
dúá is construed as a compound, the subject in (12a) is seen as the possessor of the referent of
the compound súsú-dúá in a possessive construction which means ‘Kofi’s measuring stick/yardstick’. This confirms that it is not possible to treat the compounds at issue as possible
syntactic constructions by simply adding a subject NP and treating the constituent verb as the
head of a verb phrase.
The example in (13) is interesting in its own way. It is grammatical because there is another
verb (fá ‘to take’) in the construction, which makes it a serial verb construction (cf. Appah
2009), and shows that the verb tó ‘to place on/at’ rather forms a unit with the other verb.
Therefore, we are not dealing with the same V-N construct – tò-béw ‘location (where something
is put)’.

(13) fá tó bèá há.
    take put place here
    ‘put it here/in this place’

Note that it is an allomorph of bèw (bèá) which occurs in the construction in (11).
That (13) is a syntactic (serial verb) construction, is confirmed by the fact that the noun has a separate modifier há ‘here’, although the lexical integrity principle (Chomsky 1970; Bresnan & Mehombo 1995; Lieber & Scalise 2007; Booij 2009) forbids the independent (syntactic) modification of the constituent of a word. With specific reference to compounding, this is encapsulated in the observation that a modifier in a compound will not act “by and for itself” (Ralli & Stavrou 1998, 244).

The data in (11) to (13) may give the impression that Corbin’s diagnostic test works for the Akan data. However, it is not clear that the test shows whether the compound is formed lexically or syntactically. What it really succeeds in doing is confirming the syntactic atomicity of the V-N compound. That is, that the compound is a word with lexical integrity, which is violated when the verbal constituent is construed as the main verb of some syntactic construction.

One serious problem with Corbin’s approach is that it advocates a firewall between morphology and syntax, where the two modules are strictly segregated and ordered. This is an unsustainable position in the present “theoretical universe”, to borrow an expression from Lieber and Scalise (2007).

As noted above, for Romance examples, some proponents of syntactic derivation assume that there is an underlying VP (cf. Contreras 1985; Di Sciullo & Williams 1987; Lieber 1992) which is thought to undergo reanalysis (Di Sciullo & Williams 1987) or be nominalized through zero affixation, as in Lieber’s (1992) analysis of the French V-N compound essuie-glace ‘windshield wiper’ (lit. wipe-windshield), as shown in (14).

Commenting on the purported syntactic derivation of V-N compounds from underlying VPs in French, Fradin (2009) argues that such an analysis “has to explain why a V may occur with no morphosyntactic marking although it heads a syntactic VP. […]. If no marking is assumed, a theory of ellipsis is required, which should make explicit in what situation the deletion of obligatory inflectional marks is licensed” (Fradin 2009, 425). So, for Fradin, the form of the verb in the V-N compound does not quite support the claim of an underlying VP.

Another problem with assuming an underlying VP for V-N compounds is that for some of the compounds, the noun constituents can only be interpreted as the external argument, which is outside of the VP. Besides that, some of the nouns are not, strictly speaking, arguments of the verb, but adjuncts, to the extent that they denote, for example, the location of the action designated by the verb (Fradin 2009; Kornfeld 2009). A similar position against an underlying-VP-analysis of V-N compounds in Bemba is presented by Basciano; Kula and Melloni (2011, 224) who argue that the verb constituents are intransitive and so cannot licence the occurrence of the nouns. Thus, the nouns are not always arguments of the verbs they occur with.

In the literature, we find that another important criterion for determining the non-syntactic nature of the formation of V-N compounds is whether the V-N construct in question exhibits the properties of lexicalized phrases. This will be shown by the amount of typically verbal or typically nominal features it displays (cf. Fradin 2005; Desmets & Villoing 2009). For example, Desmets and Villoing (2009) argue that French V-N compounds are not syntactic formations because they do not show the expected properties of lexicalized syntactic phrases. They observe that compounding being a lexical process typically does not involve functional words like determiners, prepositions and pronouns, including clitic forms. However, syntactic
lexicalization of verb phrases, including those that involve the same V and N categories we find in V-N compounds, do characteristically preserve function words. In this regard, they note that the type of nouns found in French V-N compounds must appear with determiners in corresponding sentences, whilst determiners are never allowed with the N in V-N nominals (Desmets & Villoing 2009, 91).

The foregoing arguments for rejecting the syntactic derivation of V-N compounds in French (Fradin 2009; Desmets & Villoing 2009) and Bemba (Basciano; Kula & Melloni 2011) can be easily extended to Akan. As noted in section 3.1, the V in Akan V-N constructs are without verbal inflection, which is obligatory in syntactic constructions, and the verb and noun may not be typical sisters in a VP (See further discussion of this in section 3.3). Thus, we take the view that the formation of Akan V-N compounds is a matter of morphology because there is no formal evidence to support syntactic derivation.

It is worth stressing that the matter of whether the V-N compounds may be assumed to be formed in the syntax or in the lexicon is of interest to only frameworks that assume a modular view of grammar, where morphology and syntax constitute strictly segregated modules which interact in very specific ways so that the output of the former module is the input to the latter (Halle 1973; Scalise 1984; Lieber 1980; Selkirk 1982; Bresnan & Mchombo 1995; Chomsky 1970). This is the lexicalist view where a word is seen as a syntactic atom whose internal structure is inaccessible to syntax and so syntactic operation involving extraction, such as topicalization and focalization, cannot move any item out of a word, showing that words are islands for extraction. For example, given the compound truck-driver, it is not allowed to move the constituent truck out of the compound truckdriver, for instance, by topicalization (as in *Truck, her father is a driver). In the same way, anaphoric resumption of especially the non-head constituents of a word is not allowed. Here, it is not possible to refer to the constituent truck. Hence, the following construction is unacceptable: Her dad is a truck-driver, but he doesn’t have one, where one refers to the truck, meaning ‘… he doesn’t have a truck’. For a recent assessment of the lexical integrity hypothesis, see Lieber and Scalise (2007) and Booij (2009).

For two groups which sometimes come under the heading of constructionism in contrast to lexicalism (cf. Fábregas & Scalise 2012, 133-151), the question of the syntactic or pre-syntactic formation of the V-N compound is not interesting. The first group has Distributed Morphology (Halle & Marantz 1993; Halle & Marantz 1994; Marantz 1997) and other syntactic approaches to word formation (e.g., Lieber 1992), for which syntax is the only computational engine for the formation of both words and phrases. For this group, there is no difference between the formation of words and the formation of sentence because it is syntactic hierarchical structure all the way down (Halle & Marantz 1994; Harley & Noyer 1999). The second group for which the question of the syntactic or pre-syntactic formation of V-N compounds is not interesting has constructionist frameworks that assumes a continuum view of the relationship between grammar and lexicon and a foundational assumption is that the lexicon or more accurately constructicon (cf. Jurafsky 1992) is a continuum of constructions (cf. Appah 2013b; Booij 2004, 2010a, 2010b, 2012a; Goldberg & Jackendoff 2004; Masini 2009; Langacker 2005). I hold a constructionist view on this matter of the formation of complex words. However, in this paper, I do not develop this any further because a Construction Morphology account of Akan V-N compounds is provided in Appah (2016, 16-20).

3.3 Distinguishing between V-N compounds and verb phrases
V-N compounds, as the foregoing discussions reveal, are very close to VPs in terms of the syntactic categories and constituent order. Therefore, it is necessary that there exist criteria for distinguishing between V-N compounds and other V-N constructs that must be analysed as VPs. In the literature, we find attempts made to find such distinguishing criteria. Braun (2009), for example, observes that, although Sranan V-N compounds have the internal structure of VPs,
they function as N⁰s at the level of syntax. She argues that the constructions “can occupy N⁰ slots because they fulfil a referential function and therefore behave similarly to other naming units which are X⁰ structures as well” (Braun 2009, 184). Thus, Braun employs the syntactic tool of substitution to establish the nounhood and, for that matter, the syntactic atomicity of the V-N compound.

In the literature on lexical integrity, we find various criteria for showing that some phonological string constitutes a word and not a phrase. We mentioned and exemplified some of them in section 3.2 with data from English. They include ban on modification of individual constituents, ban on movement of especially non-head constituents for focus and topicalization and pronominal reference (Bresnan & Mchombo 1995; Chomsky 1970; Lieber & Scalise 2007; Selkirk 1982; Williams 1978; Scalise & Guevara 2005; Spencer 1991, 2005). I will apply the tests of no topicalization/focus and anaphoric reference to parts of words as well as non-modification of individual construction to underscore the wordhood of the Akan V-N constructs at issue.

Typical words resist standard extraction tests like topicalization and focalization to show that words are islands for extraction. When we apply the extraction test to the Akan compounds we end up with ungrammatical structures as shown in the examples in (15) and (16).

(15) Non-head topicalization in sùmá’sèm ‘secret’ (6h), kyèàdéé ‘generous person’ (7f)

a. *áxém, ó-túmi sùmá
   matter 3SG-be.able hide
   ‘matter, it can hide’

b. *àdèé déé Kwàkú kye
   thing TOP Kwaku gift
   ‘as for things/gifts Kweku really gives’

(16) Non-head focus in twá’bó ‘a stone by which gold is tried’ (6i), kùmkùm ‘hunger killer’ (7e)

a. *bó ná Ábá twá
   matter FOC Aba cut
   ‘It is stone that Aba cuts’

b. *kúm ná Kwàkú kúm
   thing FOC Kwaku gift
   ‘It is hunger that Kweku kills’

As noted in section 3.2, another criterion is that constituents of words, especially the non-heads, are unavailable for anaphoric resumption and there is a ban on head movement especially involving the non-head. When this test is applied to the Akan data, we end up with ungrammatical structures, as exemplified by the data in (17), where the pronoun bì ‘some’ in (17a) and (17b), refer to the bracketed parts of the compounds and the constructions are ungrammatical because the pronoun refers to constituents of complex words.

(17) Pronominal reference to non-head, sùsù-dùá ‘yardstick’ (6a), bó-ńśùó ‘professional car wash(er)’ (7g).

a. *Ábá wó sùsù-[dùá] nánśó ó-n-ń-sùsù bì
   Aba has measuring stick but 3SG-NEG-Measure some
   ‘Aba has a measuring stick but he does not measure some’

b. *Kwàkú yè bóń-[ńśúó] éníti ń-bó bì
   Kweku. be professional car wash(er)’ so 3SG-hits some
   ‘Kweku is a ‘professional car wash(er)’ so he washes some’
The final test we use is the modification test. This test is meant to prove cohesiveness which is one of the defining properties of words (cf. Di Sciullo & Williams 1987; Dixon & Aikhenvald 2002b, 2002a; Lyons 1968; Lieber & Scalise 2007). This test shows that the individual constituents of words, especially the non-head constituents cannot be modified independently. This is clear from (18), where, as the bracketing shows, the modifier (e.g., the definite determiner in (18a)) modifies only the right-hand nominal constituents and rendering the construction ungrammatical. This confirms the view that a non-head constituent of a complex word cannot act by and for itself (Ralli & Stavrou 1998; Giegerich 2004, 2005).

(18) Insertion/modification test
a. *di [bèá nô]
to assume place/rank DEF
b. *sùmà [sèm piì]
to hide matter a lot
c. *twà [bò kèsè]
to cut stone large
‘cut a large stone’
d. *dà [âmôná kâkraba]
to sleep hole little
‘sleep a small hole’

e. *kà [âkyiré ketewaa]
to remain behind small
‘little remain behind’
f. *hô [âdê nyinara]
to create thing all
‘create all things’

All the three standard tests for syntactic atomicity applied above returned ungrammatical constructions. This shows that the constructs under discussion are words and, given that the two constituents of the complex words are free forms, we have to conclude that they are compounds.

Aside from the regular tests for the syntactic atomicity of the V-N constructs, there are three additional criteria for distinguishing between the Akan V-N compounds discussed in this paper and the corresponding VPs. The first, which relates to the exocentric subtype, is semantic and is based on the notion of compositionality, the general principle for the interpretation of linguistic constructs, which states that the meaning of a complex expression is a compositional function of the meanings of its constituents and how they are combined (cf. Booij 2012b, 209-211; Szabó 2012; Jenssen 2012; Anderson 1992). That is, whilst the corresponding phrases tend to be compositional, the exocentric V-N compounds are non-compositional, so that the meaning of the whole cannot be deduced completely from the combination of the meanings of the parts. For example, in (19b), it is not possible to tell the whole meaning of the compound (an animal which dwells in a hole) by combining the meanings of dá ‘to sleep’ and âmôná ‘a hole’. In the same way, one cannot tell that by combining kà ‘to remain’ and âkyiré ‘behind’ (20), we would form a compound that refers to the lastborn (the youngest/latest member of a family). Again, we cannot predict that the combination of kùm ‘to kill’ and kòm ‘hunger’ would yield a word that refers to a species of maize (19a). As a syntactic construction, kùm kòm means ‘to kill hunger’ and nothing more, yet the compound is agentive, referring to the one who performs the action of killing hunger.
As Appah (2016, 21, n. 1) points out, “the existence of idiomatic phrases like the verb phrase *kick the bucket* makes semantic transparency a tricky criterion for distinguishing between compounds and phrases”. Indeed, it is not the case that the meanings of the compounds are entirely unrelated to the compositional meanings of the constructions. There are clear metonymic relations between the idiomatic meanings of the compounds and their compositional meanings. For example, in (19a), the action of killing hunger is used to refer to the agent of the action of “killing hunger”. In (19b), the location of an entity is used to represent the entity that is associated with the location as its dwelling. Again, the fact of remaining behind or arriving late, relative to a certain time or occurrence, is used to refer to the person who remains behind or arrives late (20).

Commenting on similar relations in French V-N compounds, Fradin writes that “V+N compounds are commonly used to express the institutionalized function a human being performs in a society […] or, simply an activity which allows us to socially identify the compound’s referent” (Fradin 2009, 423). This is very true of the Akan compound *ká-ákyiré* (20), which is used exclusively to identify the lastborn of a family or, part in jest, to refer to the last person to join any group/unit.\(^7\)

In addition to the semantics, unlike VPs to which we can add subject NPs/pronouns and obtain well-formed constructions, à la Corbin (1992) cited in Fradin (2009), it is not possible to simply attach a subject marker to an Akan V-N compound and get a well-formed sentence with the same meaning, as the examples in (11) and (12) show. Related to this is the fact that the V constituent is stripped of all verbal inflectional markers, which are otherwise formally marked obligatorily in phrases, except when, as indicated above, the construction is in the stative or habitual in which case tone is employed. Recall the examples in (9).

Finally, there is phonological evidence that some of the constructions we are interested in are not phrases. That is, for those exocentric V-N compounds that usually have agentive reading, there is a corresponding VP that differs from the compound in their tonal melodies, as shown in (21).

\[
\begin{array}{ll}
\text{Related VP} & \text{Compound} \\
\text{(a) } kọ ọsúọ & kọ-ọsúọ \\
go water & go-water \\
‘fetch water’ & ‘one who fetches water’ \\
\text{(b) } bọ ìdëè & bọ-ìdëè \\
creat thing & create-thing \\
\end{array}
\]

\(^7\) A reviewer suggests that the interpretive effect of non-compositionality might be due to the fact that such V-N constructs are lexicalised with a specific meaning and that a more important question is whether these V-N compounds are formed productively in Akan and what the presence of neologisms will reveal about the interpretation. What is clear, in terms of productivity, is that the pattern is definitely available but not profitable, in the sense of Bauer (2001). It is available because we can see relatively recent formations like *bọ-ọsúọ* ‘professional car wash(er)’, which could only have come into existence with the advent of professional car wash, which is a relatively recent phenomenon. In addition, about two years ago, someone saw the photo of his friend on Facebook in which the friend was sharing soup at a social gathering. The person wrote on that friend’s wall *kọ-ọsúọ* ‘one who shares soups’, and the meaning was pretty clear. This shows that the pattern may be used to form new V-N compounds. However, there are very few such V-N compounds formed. Therefore, we can conclude that the pattern is not profitable (cf. Bauer 2001).
These exocentric V-N compounds (see (7) above) are said on high-low-high-high tonal melody consistently, although the analogous phrases in (21) bear varied tonal melodies. The important point to note here is that, whatever the tonal melody of the phrase and of the individual constituents in isolation, the compound will have the observed tonal melody.

To end the discussion, we can make a further point of establishing the nominal status of the Akan V-N constructs through their distribution. For example, we know that only nouns may co-occur with determiners, be pluralized and be the possessed element in a possessive phrase. Thus, using ká-ákyiré ‘lastborn’ (7c, above) for illustration, we can prove the nominal status of Akan V-N compounds, because they can be modified by determiners (22a), co-occur with possessive pronouns (22b), be the possessed elements (22c) or inflect for number (22d).

(22) a. káákyiré no  
lastborn DEF  
‘the last born’,
b. né káákyiré nó  
3SGPOSS lastborn DEF  
‘his/her last born’ (lit. his the lastborn)
c. Kófi káákyiré nó  
Kofi lastborn DEF  
‘Kofi’s last born’ (lit. Kofi the lastborn)
d. à-káákyiré-fóò  
PL-lastborn-PL  
‘lastborns’.

Regarding example (22d), it has been argued that the suffix [-fóò] and its distinctly singular counterpart [-ynyí] attach to nominal bases only to either form or pluralize human nouns and so any unit that serves as a base for -fóò suffixation, has to be a noun, prima facie (cf. Appah 2013a, 2013b, 2017). The presence of -fóò, therefore, shows that the V-N construct ká-ákyiré ‘lastborn’ is indeed a noun.

4. Conclusion
In this paper, I have discussed three issues in the literature on V-N compounds and shown how Akan answers the relevant questions. The issues relate to the syntactic category of the left-hand constituents and that of the compound, whether the formation of V-N compounds is a matter of syntactic or morphology and how to distinguish V-N compounds from VPs. I have shown that the left-hand constituent of the Akan V-N compound is indeed a verb, making the compound a V-N compound. I have argued that per the criteria in the literature, the formation of Akan V-N compounds has to be a matter of morphology and not syntax. However, I indicated that the second issue is subject to the theoretical orientation of the analyst and relevant for only models that assume a strict divide between morphology and syntax. Regarding the third issue, I have noted that, aside from the usual test for lexical integrity or syntactic atomicity, there are morphological, phonological and semantic basis for distinguishing between V-N compounds and VPs in Akan.
References


