Grammar Rules

Given the following grammar, use either the top-down or the bottom-up method to determine if each sentence agrees with the grammar. If it does not agree, write *SYNTAX ERROR*.

Grammar Rules

```
<subject><predicate>
<sentence>
             ::=
<subject>
                    <article><noun>
             ::=
                                              <noun>
cate>
                   <verb><object>
             ::=
<object>
                    <subject>
                                              cpreposition><article><noun>
                                       ::=
<article>
             ::=
                    the
                                 a
                   flower |
                                 dog |
                                                           spaceship
<noun>
                                              girl |
             ::=
                   runs | washes | kisses | laughs | flies
<verb>
             ::=
cpreposition> ::=
                   in
                         on
                                              at
```

1. in girl walks on a dog

2. dog runs spaceship

3. flower skates the at flower

4. boy laugh at flower

5. flies in the dog