[PoGoPVPGrammer] [PoGoPVPTrainer]

<PoGoPVPTrainer> ::= <PoGoPVPTrainerItemListOpt> :

END-OF-RULE

<PoGoPVPTrainerItemListOpt> ::= **ENTRY** entryId **{SemEncEntryStart}** <EncyclopediaEntry> **END-OF-ENTRY** **{SemEntryEnd}**

<PoGoPVPTrainerItemListOpt> :

**COURSE** courseId **{SemCourseEntryStart}** <CourseEntry> **END-OF-COURSE** **{SemCourseEntryEnd}**

<PoGoPVPTrainerItemListOpt> :

**END-OF-ENTRIES :**

END-OF-RULE

<EncyclopediaEntry> ::= **FOR-COURSE** courseId **DATA (** <KnowledgeItem> **) TEST (** <TestItem> **)** <HintItem> :

END-OF-RULE

<KnowledgeItem> ::= **TypeImageColor** **(** typeId**,** **Image:** “imageFn”**, Color:** colorId **) {SemTypeImageColor}** :

**TypeEffectAttack** **(** **Attack:** attackId , **Defense**: defenseId ,

**Effectiveness:** effectivenessId**) {SemTypeEffectAttack} :**

**TypeEffectDefense (** **Attack:** attackId**,** **Defense:** defenseId ,

**Effectiveness:** effectivenessId **) {SemTypeEffectDefense} :**

END-OF-RULE

<TestItem> ::= **TextQuestion:** “questStr” **, AnswerType:** <AnswerType> **,** **Answer:** “ansStr” **{SemTestText} :**

**ImageQuestion:** “questStr” **, Image:** “imageFn” **, AnswerType:** <AnswerType> **,**

**Answer:** “ansStr” **{SemTestImage} :**

**AnimationQuestion:** “questStr” **, Support:** “supportStr”**,**

**AnswerType:** <AnswerType>, **Answer:** “ansStr” **{SemTestAnimation} :**

**VideoQuestion:** “questStr”**, Video:** “videoFn”**, AnswerType:** <AnswerType> **,**

**Answer:** “ansStr” **{SemTestVideo} :**

# The Support above is an image, animation, video or URL in XCAssets

END-OF-RULE

<HintItem> ::= **HINT (** <Hint> **) :**

END-OF-RULE

<Hint> ::= **Text:** “hintStr” **{SemHintText} :**

**Image:** “hintStr” **{SemHintImage} :**

**Animation:** “hintStr”, “hintStr” **{SemHintAnimation} :**

**Video:** “hintStr” **{SemHintVideo} :**

**Web-Address:** “URLStr” **{SemHintWebAddress} :**

END-OF-RULE

<AnswerType> ::= **YESNO {SemAnswerYesNo} :**

**MULTICHOICE-FIXED (** [string]

, [string], [string], [string], [string], [string] **) {} :**

# Show possible answers randomly out of those suppled here

**MULTICHOICE-RELATED {} :**

# Show four possible answers randomly out of six of the most

**#**  recent questions of the same type

END-OF-RULE

<CourseEntry> ::= **NAME** “cseNameStr” **{} :**

**DESCRIPTION** “cseDescStr” **{} :**

**BACKGROUND** “bkgdFn” **{} :**

**BADGE** “badgeFn” **{} :**

END-OF-RULE

END-OF-GRAMMER

# The grammer is defined using <>, {}, ::=, :, END-OF-RULE, and END-OF-GRAMMER

# Terminal Symbols:

# Keywords start with a capital letter

# Identifiers start with a lower case letter

# String literals are in “”

# Numeric literals are numbers

# All puctuation (including round brackets) are considered whitespace

# <NonTerminalSymbols> are all rules

# “string” ::= # any non-quote characters

# [number] ::= # any integer (Regex) ???