

# LENA™ Language and Autism Screen (LLAS)

## LLAS Report



Dear Parent,

ID # 500001

Thank you for completing the LENA Language and Autism Screen (LLAS). We have analyzed the data and summarized our findings below.

Child's Name: James

Child's Date of Birth: 08/04/2006

Child's Age on Day of Recording: 31 months

Date of Recording: 03/14/2009

Length of Recording: 12 hrs: 00 mins

**Findings and recommendations:** Based on a review of all of the information collected from the online questionnaires and your child's vocalizations and interactions on the day of the recording, *there is an indication that your child is at-risk for a language delay and for autism.* Your child's expressive and receptive language skills are less than 75% of his/her chronological age. Your child also received a score indicating vocalizations and behaviors associated with increased risk for autism on both sections of the autism-related sections of the screen: the automatic analysis of vocalizations and the Behavior Questionnaire. We recommend that you schedule an autism evaluation with a developmental pediatrician. There are a number of ways to schedule an evaluation. The most straightforward route is to obtain a referral from your pediatrician. For more detail on the four areas assessed (Language Development, Language Environment, Automatic Autism Screen, and Behavior Questionnaire) please review the following scores and summaries. If you have any questions, feel free to contact us.

Language Developmental Age	Language Environment				Autism Screen Score	
Developmental Snapshot	Number of Child Vocalizations	Number of Adult Words	Number of Conversational Turns	Amount of Television and Electronic Sound	LENA Autism Score	Behavior Questionnaire
13 months <sup>A</sup> 42% of Age	1,189 14th percentile <sup>B</sup>	16,393 83rd percentile <sup>B</sup>	428 39th percentile <sup>B</sup>	00 hr: 5 mins 19%	6	High Risk

**Language Development:** According to the Developmental Snapshot, your child's overall (expressive and receptive) language development age is 13 months, which is 42% of your child's chronological age of 31 months at the time the Developmental Snapshot was completed (Developmental Age [DA]/Chronological Age [CA] = 42%). A child whose overall language development age is less than 75% of his or her chronological age is considered to be at risk for language delay. In addition, our Automatic Vocalization Analysis (AVA), a statistical analysis of the sounds your child produced, suggests that your child's patterns of vocalizations are similar to those produced by children who have been diagnosed with a language delay.

<sup>A</sup> The Language Developmental Age, based on the Developmental Snapshot, is a total language score encompassing both expressive and receptive language and is representative of a child's day-to-day observed language skills and behaviors (i.e., parent answers "Yes" if the child has consistently demonstrated a skill).

<sup>B</sup> Normative percentile estimates for Child Vocalizations, Adult Word Count, and Conversational Turns are based on 12-hour days. Estimates for recordings fewer than 12 hours in duration may be less accurate, and percentile information is not available for recordings under 10 hours.

The LENA™ Language and Autism Screen is a product of the LENA Research Foundation, a nonprofit charitable organization.

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**Child Vocalizations:** Your child's vocalizations on the recording day were at the 14th percentile, below the typical range. Review your session questions and Daily Activity Log to determine if any situational factors (e.g., high amounts of TV or overlapping speech) may have contributed to the low vocalization level. If the day of the recording was a typical day try to elevate the number of vocalizations through increased talking, reading, and activity narration. For tips and ideas on increasing vocalizations visit the free resources section of our website at [lenababy.com](http://lenababy.com) and view the Talking Tips and Videos. If there are other indicators of a language delay we recommend that you take your child to a professional for an evaluation.

**Adult Words:** The number of adult words your child was exposed to on the recording day was at the 83rd percentile. Continue to maintain a high level of talk with your child through narration of activity, book reading, and daily chit-chat.

**Conversational Turns:** The number of conversational turns—vocal interaction between adults and child—on the recording day was at the 39th percentile, within the moderate range (20th-80th percentile). Research indicates that the number of conversational turn-taking interactions between the ages of 0-4 in a child's life may enhance a child's language development. Helping to elevate your child's conversational turns to a high level may improve his or her academic outcomes. For tips and ideas on increasing conversational turns visit the free resources section of [lenababy.com](http://lenababy.com) and view the Talking Tips and Videos.

**Television:** Low levels of TV and other electronic sounds were detected on the recording day. Studies have shown that significant early childhood TV viewing is associated with decreased language development. Continue to maintain a low level of TV while your child is in the room to provide the best opportunity for development.

**Autism Score:** Your child received an Autism Score of 6, which indicates an increased risk of autism. In our sample of 75 children diagnosed with autism, 78% received a score of 6 or 7. We recommend that you arrange an evaluation with a developmental pediatrician or other professional.

**Behavior Questionnaire:** Based on your answers to the online Behavior Questionnaire your child appears to exhibit a significant number of behaviors associated with an increased risk for autism. We recommend that you arrange an evaluation with a developmental pediatrician or other professional.

**Findings and Recommendations:** Based on a review of all of the information collected from the online questionnaires and your child's vocalizations and interactions on the day of the recording, *there is an indication that your child is at-risk for a language delay and for autism.* Your child's expressive and receptive language skills are less than 75% of his/her chronological age. Your child also received a score indicating vocalizations and behaviors associated with increased risk for autism on both sections of the autism-related sections of the screen: the automatic analysis of vocalizations and the Behavior Questionnaire. We recommend that you schedule an autism evaluation with a developmental pediatrician. There are a number of ways to schedule an evaluation. The most straightforward route is to obtain a referral from your pediatrician. For more detail on the four areas assessed (Language Development, Language Environment, Automatic Autism Screen, and Behavior Questionnaire) please review the following scores and summaries. If you have any questions, feel free to contact us.

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**This report does not constitute a diagnosis.** If you determine that your child should receive a diagnosis please take this information to your pediatrician, speech-language pathologist (SLP) or developmental pediatrician to aid in a diagnosis.

For more information about language development and parent resources visit: [www.lenababy.com](http://www.lenababy.com).

Please contact us if you have any questions regarding your child's LLAS report.

Sincerely,

The LENA Team

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