

NeuroBloom Cognitive Report

Session ID: d1f74eab-378c-4f98-8e79-bdde27ddd018

AI Summary

```
```json
{
 "diagnosis": {
 "Dyslexia": false,
 "Dyscalculia": false,
 "ADHD": true,
 "ASD": false,
 "Dysgraphia": true
 },
 "reasons": {
 "Dyslexia": "No significant reading difficulties or LD scores were found.",
 "Dyscalculia": "No significant math difficulties or LD scores were found.",
 "ADHD": "The child's hearing test results indicate poor sustained attention (missed beeps) and very slow auditory responses (auditory processing weakness), which are common symptoms of ADHD.",
 "ASD": "No significant difficulties with social-emotional understanding or repetitive behaviors were found.",
 "Dysgraphia": "The child's handwriting test results indicate poor motor planning while writing and possible dysgraphia (writing difficulty).",
 },
 "strengths": [
 "Money calculation",
 "Comparing numbers",
 "Subtraction",
 "Comparing quantities",
 "Counting objects",
 "Addition",
 "Smooth word flow",
 "Good reading endurance",
 "Recognizes anger",
 "Recognizes happiness",
 "Recognizes distress",
 "Recognizes sadness",
 "Good sound discrimination",
 "Good spoken word understanding",
 "Strong visual working memory (can remember images well)",
 "Good visual-spatial ability",
 "Strong pattern and logical reasoning",
 "Fast thinking and response speed"
],
 "weaknesses": [
 "Slow word decoding",
 "Poor sustained attention (missed beeps)",
 "Very slow auditory responses (auditory processing weakness)",
 "Poor motor planning while writing",
 "Possible dysgraphia (writing difficulty)"
],
 "therapies": [
 "Occupational therapy to improve handwriting and fine motor skills",
]
}
```

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"Speech therapy to improve auditory processing and attention",
"Cognitive-behavioral therapy to improve emotional regulation and social skills",
"Multisensory instruction to improve reading and math skills"
],
"school_support": [
"Provide accommodations for the child's ADHD, such as extra time to complete assignments and frequent breaks",
"Offer multisensory instruction to improve reading and math skills",
"Provide occupational therapy to improve handwriting and fine motor skills",
"Provide speech therapy to improve auditory processing and attention"
],
"risk_level": {
"ADHD": "High",
"Dysgraphia": "Moderate",
"Dyslexia": "Low",
"Dyscalculia": "Low",
"ASD": "Low"
}
}
...

```

Note: The risk level is subjective and based on the analysis of the provided data. It may vary depending on the individual child's needs and circumstances.

## Raw Model Output

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{ "session_id": "dlf74eab-378c-4f98-8e79-bdde27ddd018", "math": { "child_strengths": [
"Money calculation", "Comparing numbers", "Subtraction", "Comparing quantities",
"Counting objects", "Addition"], "child_struggles": [], "confidence": 72.49,
"math_profile": { "accuracy": 1.0, "avg_time": 1.33, "consistency": 1.25 },
"prediction": "Normal", "probabilities": { "High Risk": 0.0, "Low Risk": 27.01,
"Medium Risk": 0.5, "Normal": 72.49, "Slow Learner": 0.0 }, "question_analysis": [{
"correct": true, "performance": "good", "skill": "Counting objects", "time": 1.0 },
{ "correct": true, "performance": "good", "skill": "Comparing quantities", "time":
1.0 }, { "correct": true, "performance": "good", "skill": "Comparing numbers",
"time": 1.0 }, { "correct": true, "performance": "good", "skill": "Addition",
"time": 1.0 }, { "correct": true, "performance": "slow but correct", "skill": "Money
calculation", "time": 4.0 }, { "correct": true, "performance": "good", "skill":
"Subtraction", "time": 0.0 }], "session_id": "dlf74eab-378c-4f98-8e79-bdde27ddd018"
}, "reading": { "LD_score": 0.0213, "audio_1_features": { "avg_pause": 0,
"max_pause": 0, "pause_count": 0, "total_words": 0, "wpm": 0.0 },
"audio_2_features": { "avg_pause": 0, "max_pause": 0, "pause_count": 0,
"total_words": 0, "wpm": 0.0 }, "child_strengths": ["Smooth word flow", "Good
reading endurance"], "child_struggles": ["Slow word decoding"],
"combined_features": { "avg_pause": 0.0, "max_pause": 0, "pause_count": 0,
"total_words": 0, "wpm": 0.0 }, "reading_risk": "NORMAL", "session_id":
"dlf74eab-378c-4f98-8e79-bdde27ddd018", "threshold": 0.0778 }, "emotion": {
"child_strengths": ["Recognizes anger", "Recognizes happiness", "Recognizes
distress", "Recognizes sadness"], "child_struggles": [], "emotion_prediction": {
"confidence": 100.0, "result": "Normal" }, "question_analysis": [{ "correct": true,
"emotion": "Happiness", "reaction_time": 0.0, "speed": "slow" }, { "correct": true,
"emotion": "Sadness", "reaction_time": 0.0, "speed": "slow" }, { "correct": true,
"emotion": "Anger", "reaction_time": 0.0, "speed": "slow" }, { "correct": true,
"emotion": "Distress", "reaction_time": 0.0, "speed": "normal" }], "session_id":
"dlf74eab-378c-4f98-8e79-bdde27ddd018" }, "hearing": { "features": { "impulsivity":
0, "mean_reaction_time": 800.0, "missed_beeps": 5, "reaction_variability": 0.0,
"slow_responses": 5 }, "prediction": "adhd", "strengths": ["Good sound
discrimination", "Good spoken word understanding"], "weaknesses": ["Poor sustained
attention (missed beeps)", "Very slow auditory responses (auditory processing
weakness)"] }, "cognition": { "cognitive_prediction": "adhd", "session_id":
"dlf74eab-378c-4f98-8e79-bdde27ddd018", "strengths": ["Strong visual working memory
(can remember images well)", "Good visual-spatial ability", "Strong pattern and
logical reasoning", "Fast thinking and response speed"], "test6_scores": {
"memory": 1, "mirror": 1, "odd_one_out": 1, "pattern": 1 }, "test6_times": {
"memory": 1.0, "mirror": 1.0, "odd_one_out": 1.0, "pattern": 1.0 }, "weaknesses": []
}
}

```

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}, "handwriting": { "child_strengths": [], "child_struggles": ["Poor motor planning
while writing", "Possible dysgraphia (writing difficulty)"], "handwriting_risk":
"INCONCLUSIVE", "risk_score": 0.5, "session_id":
"dlf74eab-378c-4f98-8e79-bdde27ddd018" } }
```