

***Modified Checklist for Autism in Toddlers, Revised with Follow-Up***

***(M-CHAT-R/F)<sup>TM</sup>***

Acknowledgement: We thank Joaquin Fuentes, M.D. for his work in developing the flow chart format used in this document.

For more information, please see [www.mchatscreen.com](http://www.mchatscreen.com)  
or contact Diana Robins at [DianaLRobins@gmail.com](mailto:DianaLRobins@gmail.com)

## Permissions for Use of the M-CHAT-R/F™

The Modified Checklist for Autism in Toddlers, Revised with Follow-Up (M-CHAT-R/F; Robins, Fein, & Barton, 2009) is a 2-stage parent-report screening tool to assess risk for Autism Spectrum Disorder (ASD). The M-CHAT-R/F is available for free download for clinical, research, and educational purposes. Download of the M-CHAT-R/F and related material is authorized from [www.mchatscreen.com](http://www.mchatscreen.com).

The M-CHAT-R/F is a copyrighted instrument, and use of the M-CHAT-R/F must follow these guidelines:

- (1) Reprints/reproductions of the M-CHAT-R must include the copyright at the bottom (© 2009 Robins, Fein, & Barton). No modifications can be made to items, instructions, or item order without permission from the authors.
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- (3) Parties interested in reproducing the M-CHAT-R/F in print (e.g., a book or journal article) or electronically for use by others (e.g., as part of digital medical record or other software packages) must contact Diana Robins to request permission ([DianaLRobins@gmail.com](mailto:DianaLRobins@gmail.com)).
- (4) If you are part of a medical practice, and you want to incorporate the first stage M-CHAT-R questions into your own practice's electronic medical record (EMR), you are welcome to do so. However, if you ever want to distribute your EMR page outside of your practice, please contact Diana Robins to request a licensing agreement.

## Instructions for Use

The M-CHAT-R can be administered and scored as part of a well-child care visit, and also can be used by specialists or other professionals to assess risk for ASD. The primary goal of the M-CHAT-R is to maximize sensitivity, meaning to detect as many cases of ASD as possible. Therefore, there is a high false positive rate, meaning that not all children who score at risk will be diagnosed with ASD. To address this, we have developed the Follow-Up questions (M-CHAT-R/F). Users should be aware that even with the Follow-Up, a significant number of the children who screen positive on the M-CHAT-R will not be diagnosed with ASD; however, these children are at high risk for other developmental disorders or delays, and therefore, evaluation is warranted for any child who screens positive. The M-CHAT-R can be scored in less than two minutes. Scoring instructions can be downloaded from <http://www.mchatscreen.com>. Associated documents will be available for download as well.

## Scoring Algorithm

For all items except 2, 5, and 12, the response "NO" indicates ASD risk; for items 2, 5, and 12, "YES" indicates ASD risk. The following algorithm maximizes psychometric properties of the M-CHAT-R:

- LOW-RISK:** **Total Score is 0-2;** if child is younger than 24 months, screen again after second birthday. No further action required unless surveillance indicates risk for ASD.
- MEDIUM-RISK:** **Total Score is 3-7;** Administer the Follow-Up (second stage of M-CHAT-R/F) to get additional information about at-risk responses. If M-CHAT-R/F score remains at 2 or higher, the child has screened positive. Action required: refer child for diagnostic evaluation and eligibility evaluation for early intervention. If score on Follow-Up is 0-1, child has screened negative. No further action required unless surveillance indicates risk for ASD. Child should be rescreened at future well-child visits.
- HIGH-RISK:** **Total Score is 8-20;** It is acceptable to bypass the Follow-Up and refer immediately for diagnostic evaluation and eligibility evaluation for early intervention.

## M-CHAT-R™

Please answer these questions about your child. Keep in mind how your child usually behaves. If you have seen your child do the behavior a few times, but he or she does not usually do it, then please answer **no**. Please circle **yes** or **no** for every question. Thank you very much.

- |  |     |    |
|--|-----|----|
| 1. If you point at something across the room, does your child look at it?<br>( <b>FOR EXAMPLE</b> , if you point at a toy or an animal, does your child look at the toy or animal?)  | Yes | No |
| 2. Have you ever wondered if your child might be deaf?   | Yes | No |
| 3. Does your child play pretend or make-believe? ( <b>FOR EXAMPLE</b> , pretend to drink from an empty cup, pretend to talk on a phone, or pretend to feed a doll or stuffed animal?)                                      | Yes | No |
| 4. Does your child like climbing on things? ( <b>FOR EXAMPLE</b> , furniture, playground equipment, or stairs)   | Yes | No |
| 5. Does your child make <u>unusual</u> finger movements near his or her eyes?<br>( <b>FOR EXAMPLE</b> , does your child wiggle his or her fingers close to his or her eyes?)   | Yes | No |
| 6. Does your child point with one finger to ask for something or to get help?<br>( <b>FOR EXAMPLE</b> , pointing to a snack or toy that is out of reach)   | Yes | No |
| 7. Does your child point with one finger to show you something interesting?<br>( <b>FOR EXAMPLE</b> , pointing to an airplane in the sky or a big truck in the road)   | Yes | No |
| 8. Is your child interested in other children? ( <b>FOR EXAMPLE</b> , does your child watch other children, smile at them, or go to them?)   | Yes | No |
| 9. Does your child show you things by bringing them to you or holding them up for you to see – not to get help, but just to share? ( <b>FOR EXAMPLE</b> , showing you a flower, a stuffed animal, or a toy truck)          | Yes | No |
| 10. Does your child respond when you call his or her name? ( <b>FOR EXAMPLE</b> , does he or she look up, talk or babble, or stop what he or she is doing when you call his or her name?)                                  | Yes | No |
| 11. When you smile at your child, does he or she smile back at you?  | Yes | No |
| 12. Does your child get upset by everyday noises? ( <b>FOR EXAMPLE</b> , does your child scream or cry to noise such as a vacuum cleaner or loud music?)   | Yes | No |
| 13. Does your child walk?  | Yes | No |
| 14. Does your child look you in the eye when you are talking to him or her, playing with him or her, or dressing him or her?   | Yes | No |
| 15. Does your child try to copy what you do? ( <b>FOR EXAMPLE</b> , wave bye-bye, clap, or make a funny noise when you do)   | Yes | No |
| 16. If you turn your head to look at something, does your child look around to see what you are looking at?  | Yes | No |
| 17. Does your child try to get you to watch him or her? ( <b>FOR EXAMPLE</b> , does your child look at you for praise, or say “look” or “watch me”?)   | Yes | No |
| 18. Does your child understand when you tell him or her to do something?<br>( <b>FOR EXAMPLE</b> , if you don’t point, can your child understand “put the book on the chair” or “bring me the blanket”?)                   | Yes | No |
| 19. If something new happens, does your child look at your face to see how you feel about it?<br>( <b>FOR EXAMPLE</b> , if he or she hears a strange or funny noise, or sees a new toy, will he or she look at your face?) | Yes | No |
| 20. Does your child like movement activities?<br>( <b>FOR EXAMPLE</b> , being swung or bounced on your knee)   | Yes | No |

# M-CHAT-R Follow-Up (M-CHAT-R/F)<sup>TM</sup>

## Permissions for Use

The Modified Checklist for Autism in Toddlers, Revised, with Follow-Up (M-CHAT-R/F; Robins, Fein, & Barton, 2009) is designed to accompany the M-CHAT-R. The M-CHAT-R/F may be downloaded from [www.mchatscreen.com](http://www.mchatscreen.com).

The M-CHAT-R/F is a copyrighted instrument, and use of this instrument is limited by the authors and copyright holders. The M-CHAT-R and M-CHAT-R/F may be used for clinical, research, and educational purposes. Although we are making the tool available free of charge for these uses, this is copyrighted material and it is not open source. Anyone interested in using the M-CHAT-R/F in any commercial or electronic products must contact Diana L. Robins at [DianaLRobins@gmail.com](mailto:DianaLRobins@gmail.com) to request permission.

## Instructions for Use

The M-CHAT-R/F is designed to be used with the M-CHAT-R; the M-CHAT-R is valid for screening toddlers between 16 and 30 months of age, to assess risk for autism spectrum disorder (ASD). Users should be aware that even with the Follow-Up, a significant number of the children who fail the M-CHAT-R will not be diagnosed with ASD; however, these children are at risk for other developmental disorders or delays, and therefore, follow-up is warranted for any child who screens positive.

Once a parent has completed the M-CHAT-R, score the instrument according to the instructions. If the child screens positive, select the Follow-Up items based on which items the child failed on the M-CHAT-R; only those items that were originally failed need to be administered for a complete interview.

Each page of the interview corresponds to one item from the M-CHAT-R. Follow the flowchart format, asking questions until a PASS or FAIL is scored. Please note that parents may report “maybe” in response to questions during the interview. When a parent reports “maybe,” ask whether most often the answer is “yes” or “no” and continue the interview according to that response. In places where there is room to report an “other” response, the interviewer must use his/her judgment to determine whether it is a passing response or not.

Score the responses to each item on the M-CHAT-R/F Scoring Sheet (which contains the same items as the M-CHAT-R, but Yes/No has been replaced by Pass/Fail). The interview is considered to be a screen positive if the child fails any two items on the Follow-Up. If a child screens positive on the M-CHAT-R/F, it is strongly recommended that the child is referred for early intervention and diagnostic testing as soon as possible. Please note that if the healthcare provider or parent has concerns about ASDs, children should be referred for evaluation regardless of the score on the M-CHAT-R or M-CHAT-R/F.

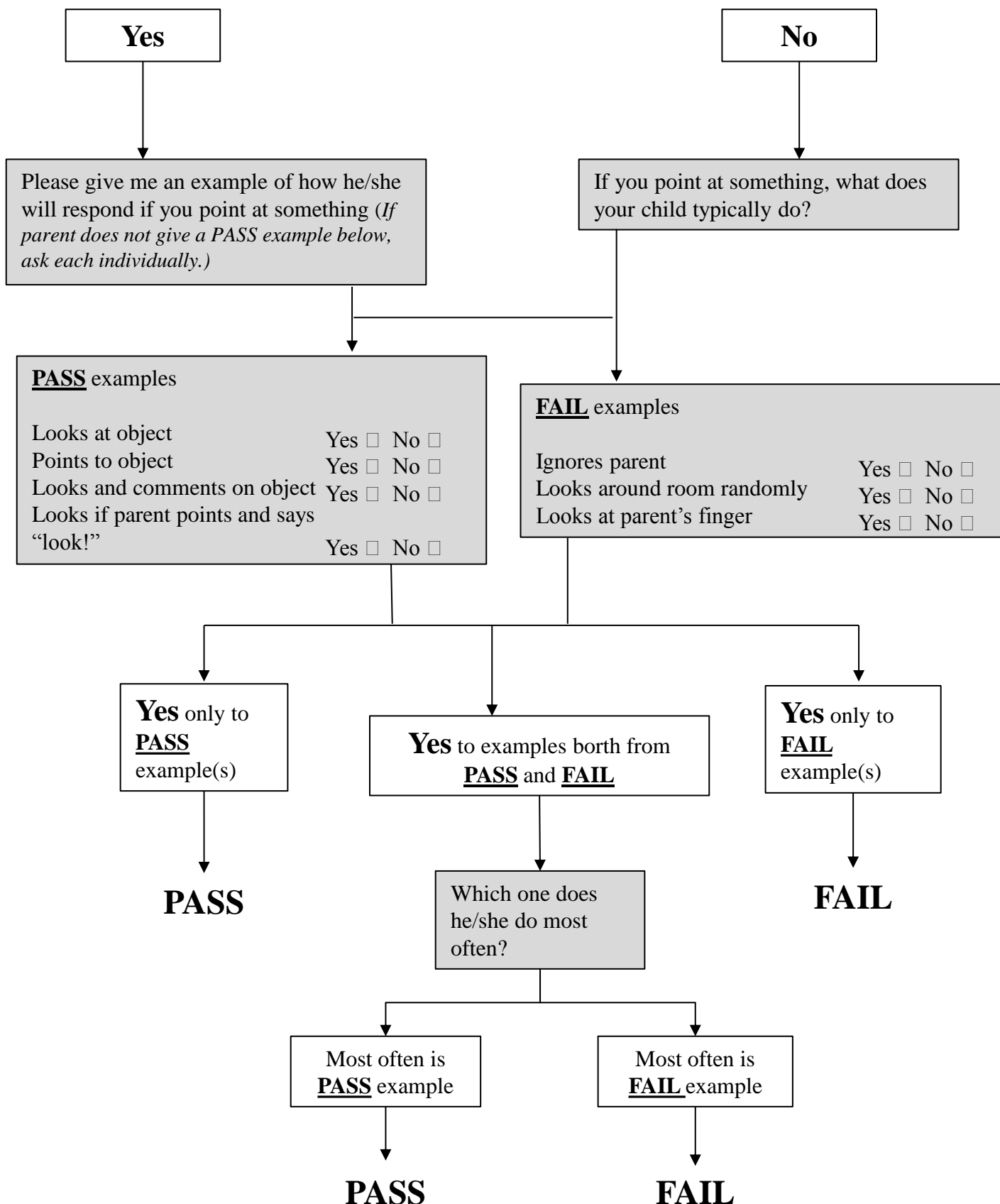
# M-CHAT-R Follow-Up™ Scoring Sheet

Please note: Yes/No has been replaced with Pass/Fail

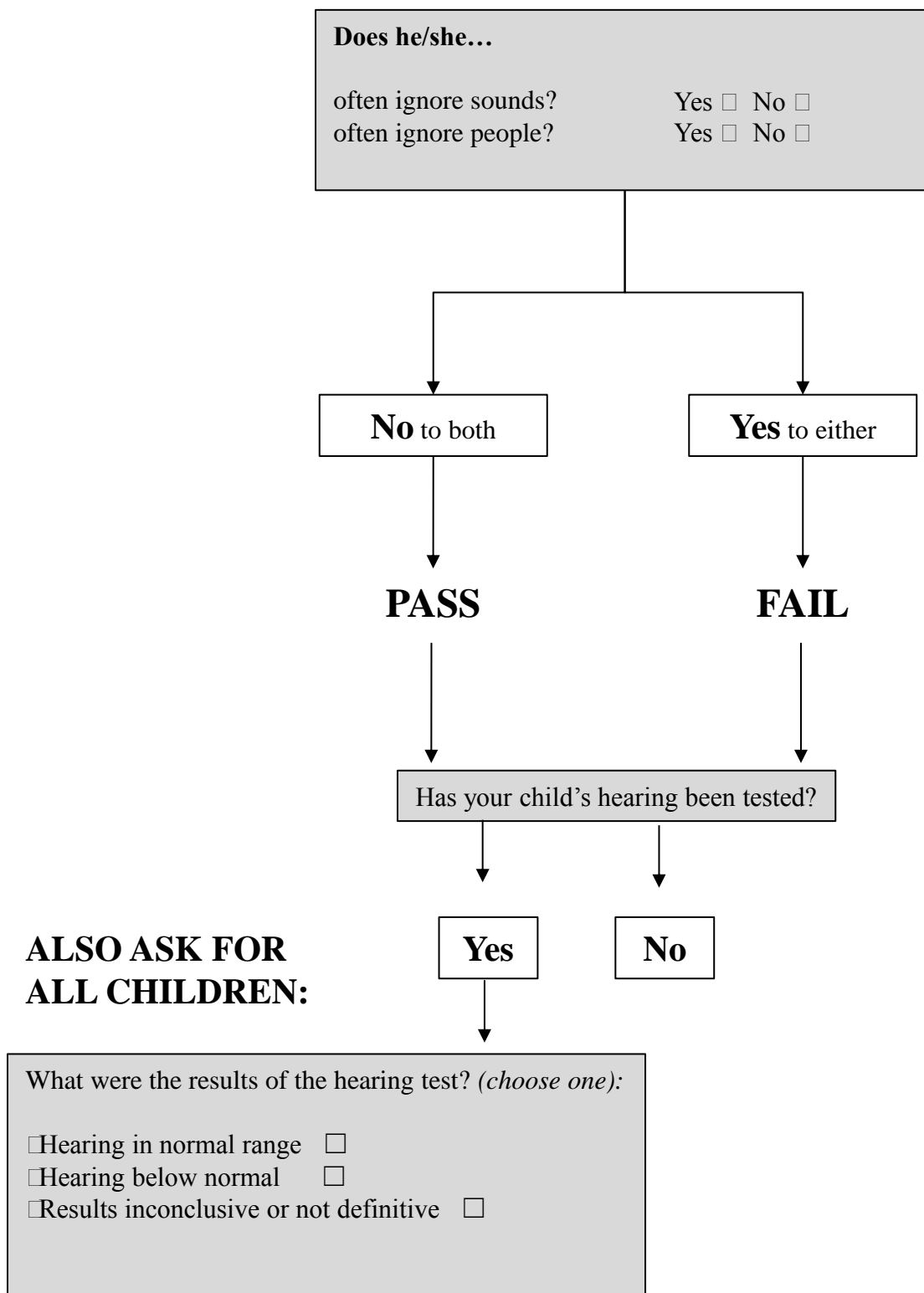
- |   |      |      |
|---|------|------|
| 1. If you point at something across the room, does your child look at it?<br>(FOR EXAMPLE, if you point at a toy or an animal, does your child look at the toy or animal?)  | Pass | Fail |
| 2. Have you ever wondered if your child might be deaf?  | Pass | Fail |
| 3. Does your child play pretend or make-believe?<br>(FOR EXAMPLE, pretend to drink from an empty cup, pretend to talk on a phone, or pretend to feed a doll or stuffed animal)                                    | Pass | Fail |
| 4. Does your child like climbing on things?<br>(FOR EXAMPLE, furniture, playground equipment, or stairs)  | Pass | Fail |
| 5. Does your child make <u>unusual</u> finger movements near his or her eyes?<br>(FOR EXAMPLE, does your child wiggle his or her fingers close to his or her eyes?)   | Pass | Fail |
| 6. Does your child point with one finger to ask for something or to get help?<br>(FOR EXAMPLE, pointing to a snack or toy that is out of reach)   | Pass | Fail |
| 7. Does your child point with one finger to show you something interesting?<br>(FOR EXAMPLE, pointing to an airplane in the sky or a big truck in the road)   | Pass | Fail |
| 8. Is your child interested in other children?<br>(FOR EXAMPLE, does your child watch other children, smile at them, or go to them?)  | Pass | Fail |
| 9. Does your child show you things by bringing them to you or holding them up for you to see – not to get help, but just to share?<br>(FOR EXAMPLE, showing you a flower, a stuffed animal, or a toy truck)       | Pass | Fail |
| 10. Does your child respond when you call his or her name?<br>(FOR EXAMPLE, does he or she look up, talk or babble, or stop what he or she is doing when you call his or her name?)                               | Pass | Fail |
| 11. When you smile at your child, does he or she smile back at you?   | Pass | Fail |
| 12. Does your child get upset by everyday noises?<br>(FOR EXAMPLE, a vacuum cleaner or loud music)  | Pass | Fail |
| 13. Does your child walk?   | Pass | Fail |
| 14. Does your child look you in the eye when you are talking to him or her, playing with him or her, or dressing him or her?  | Pass | Fail |
| 15. Does your child try to copy what you do?<br>(FOR EXAMPLE, wave bye-bye, clap, or make a funny noise when you do)  | Pass | Fail |
| 16. If you turn your head to look at something, does your child look around to see what you are looking at?   | Pass | Fail |
| 17. Does your child try to get you to watch him or her?<br>(FOR EXAMPLE, does your child look at you for praise, or say “look” or “watch me”)   | Pass | Fail |
| 18. Does your child understand when you tell him or her to do something?<br>(FOR EXAMPLE, if you don’t point, can your child understand “put the book on the chair” or “bring me the blanket”)                    | Pass | Fail |
| 19. If something new happens, does your child look at your face to see how you feel about it?<br>(FOR EXAMPLE, if he or she hears a strange or funny noise, or sees a new toy, will he or she look at your face?) | Pass | Fail |
| 20. Does your child like movement activities?<br>(FOR EXAMPLE, being swung or bounced on your knee)   | Pass | Fail |

Total Score: \_\_\_\_\_

1. If you point at something across the room, does \_\_\_\_\_ look at it?



**2. You reported that you have wondered if your child is deaf. What led you to wonder that?**



**ALSO ASK FOR ALL CHILDREN:**

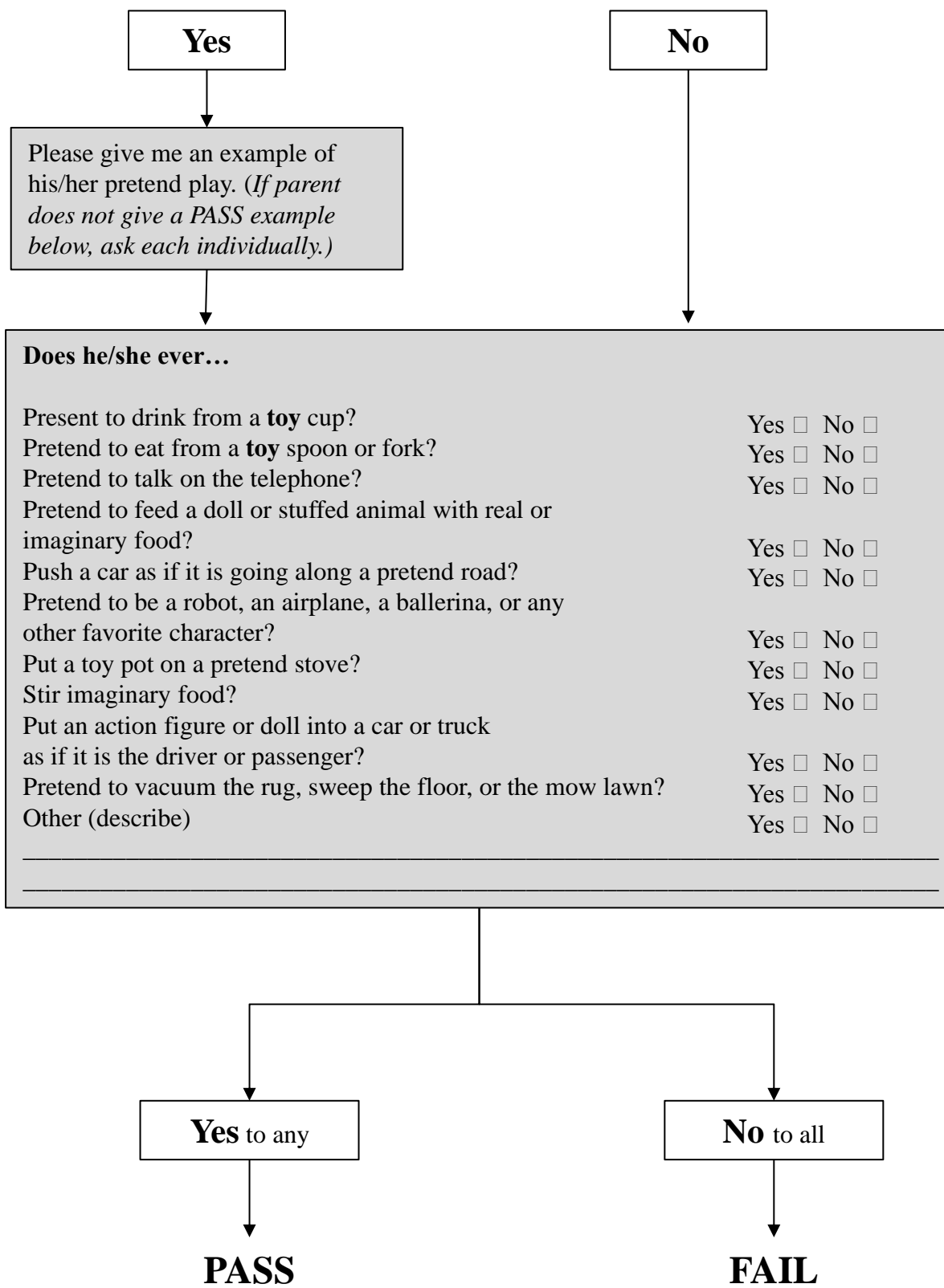
What were the results of the hearing test? *(choose one)*:

Hearing in normal range

Hearing below normal

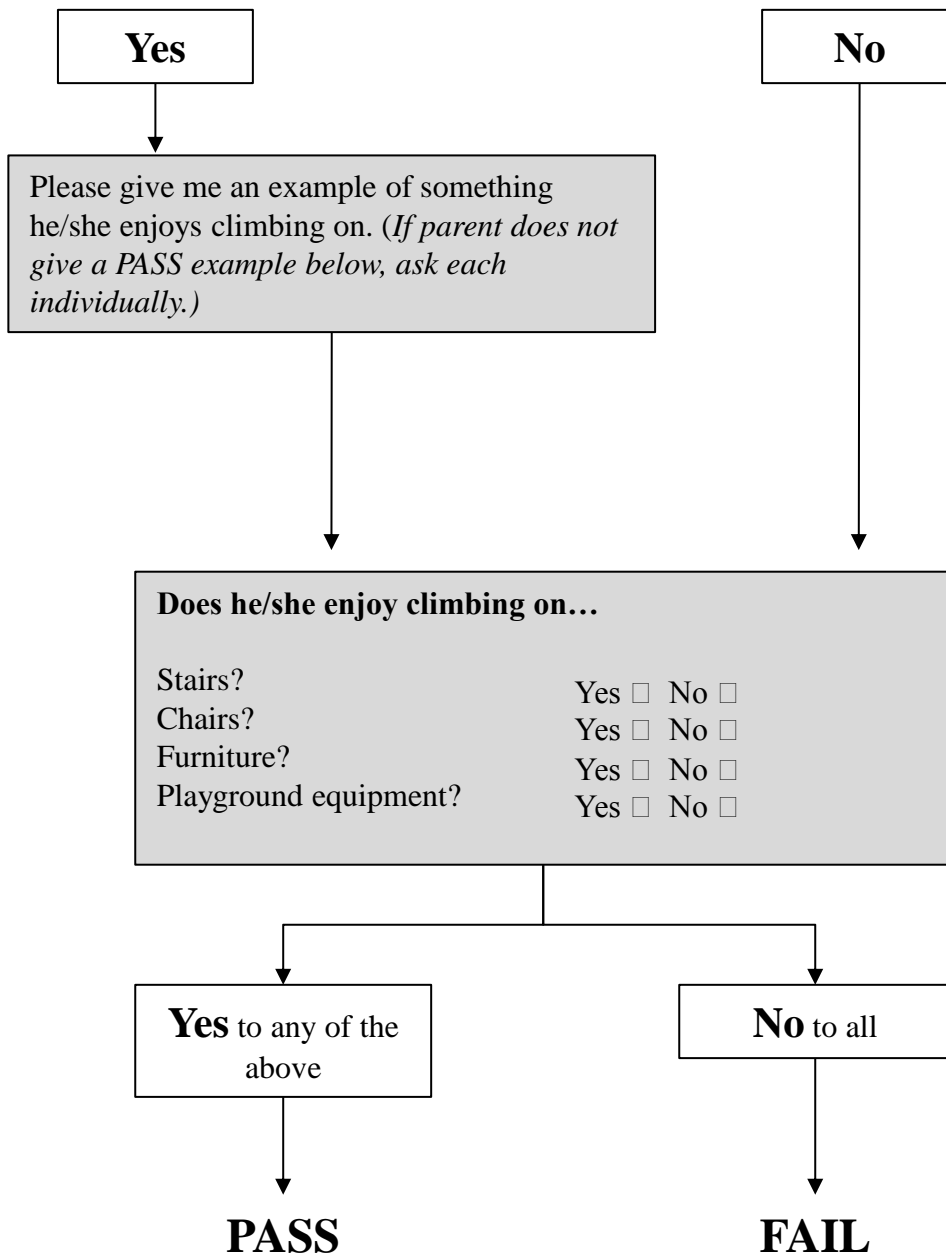
Results inconclusive or not definitive

3. Does \_\_\_\_\_ play pretend or make- believe

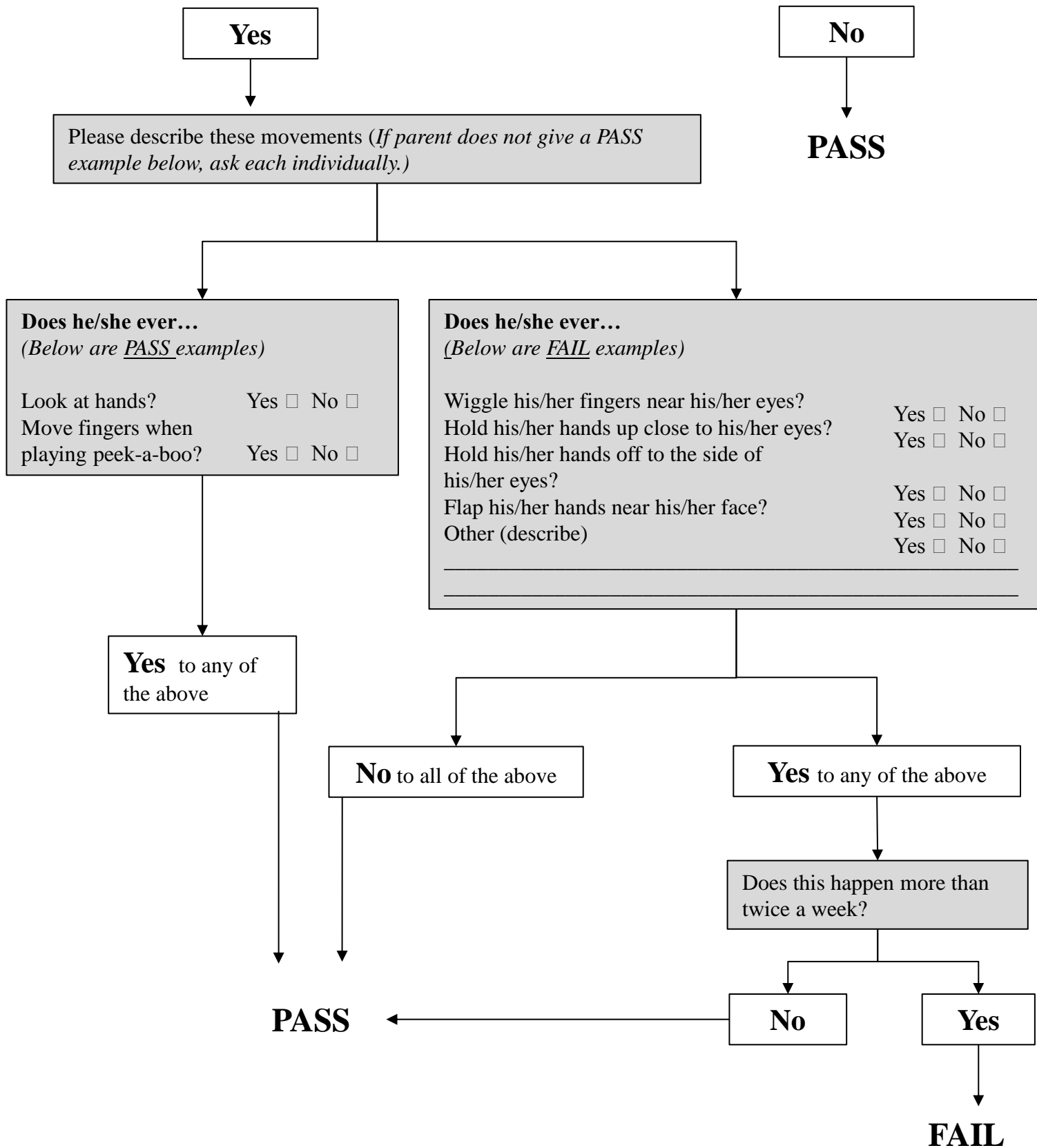




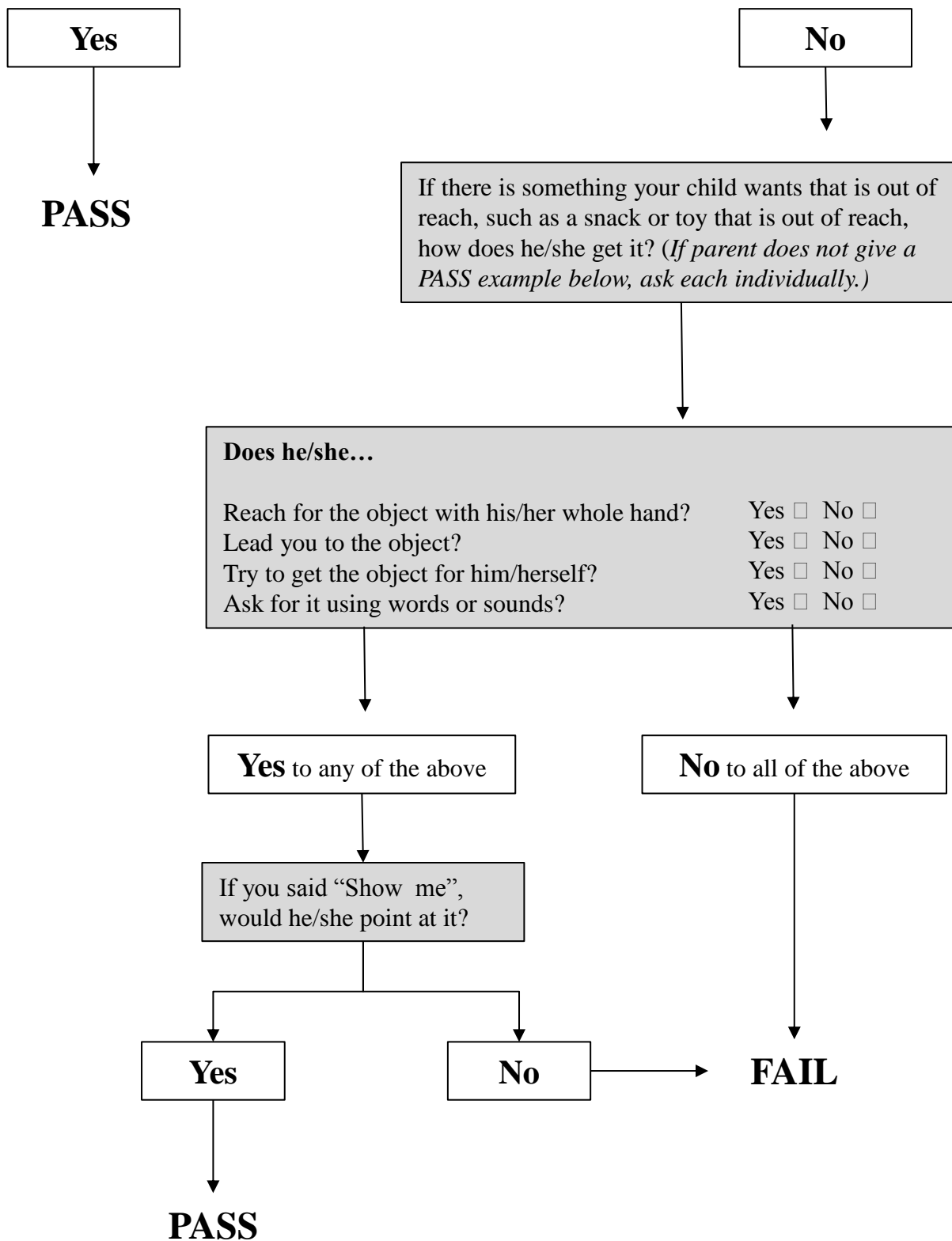
4. Does \_\_\_\_\_ like climbing on things?



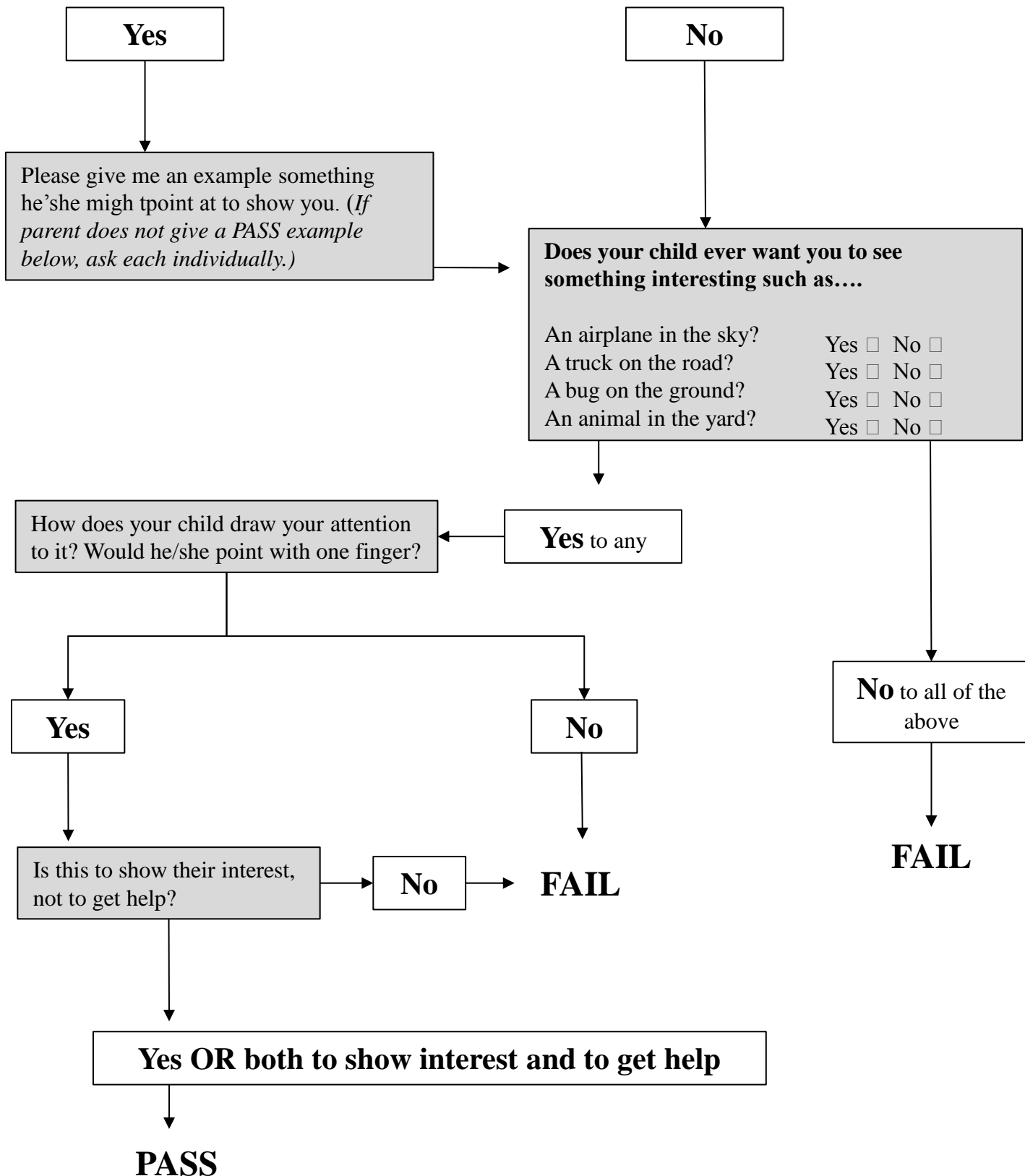
5. Does \_\_\_\_\_ make unusual finger movements near his/her eyes?



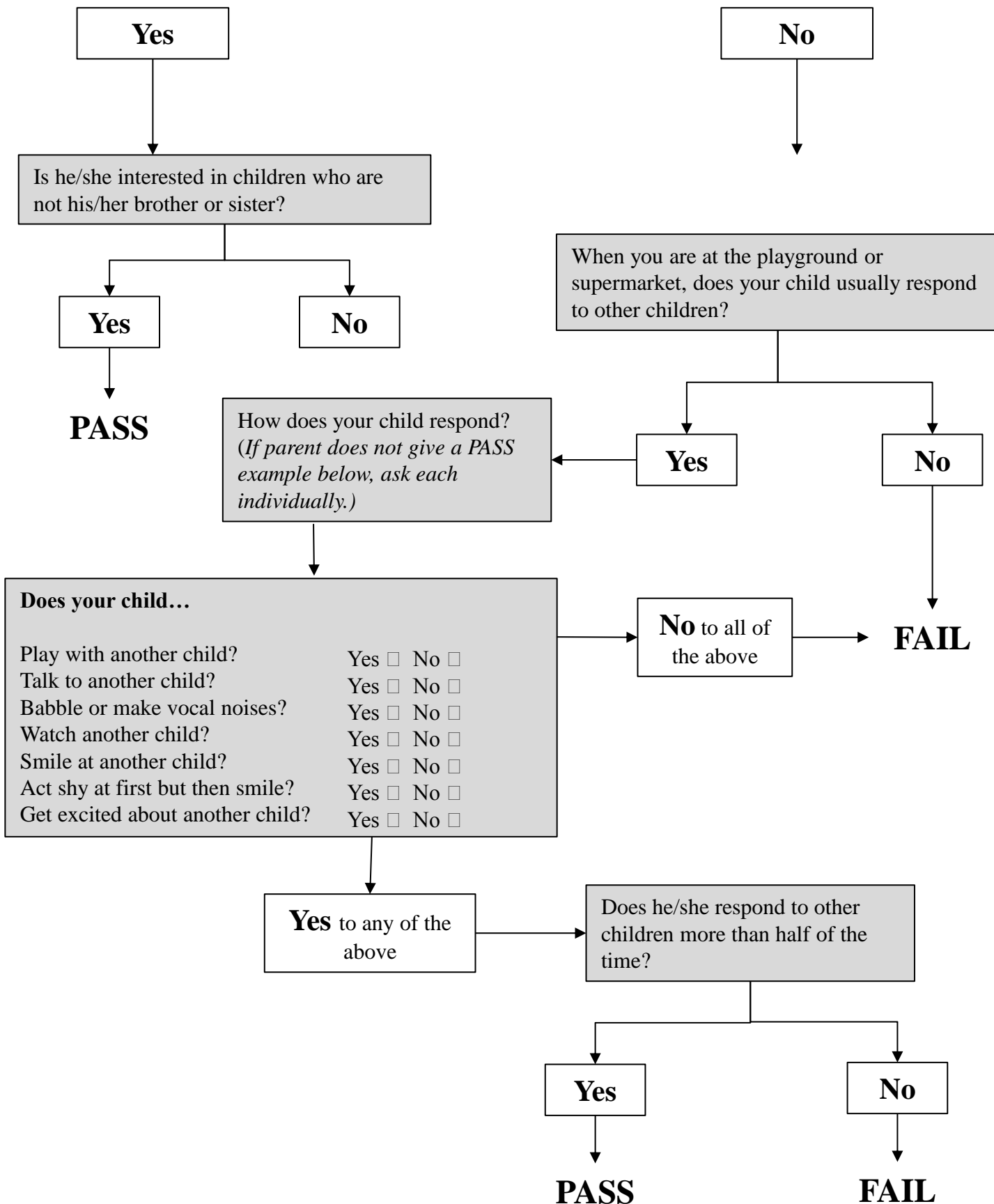
**6. Does your child point with one finger to ask for something or to get help?**



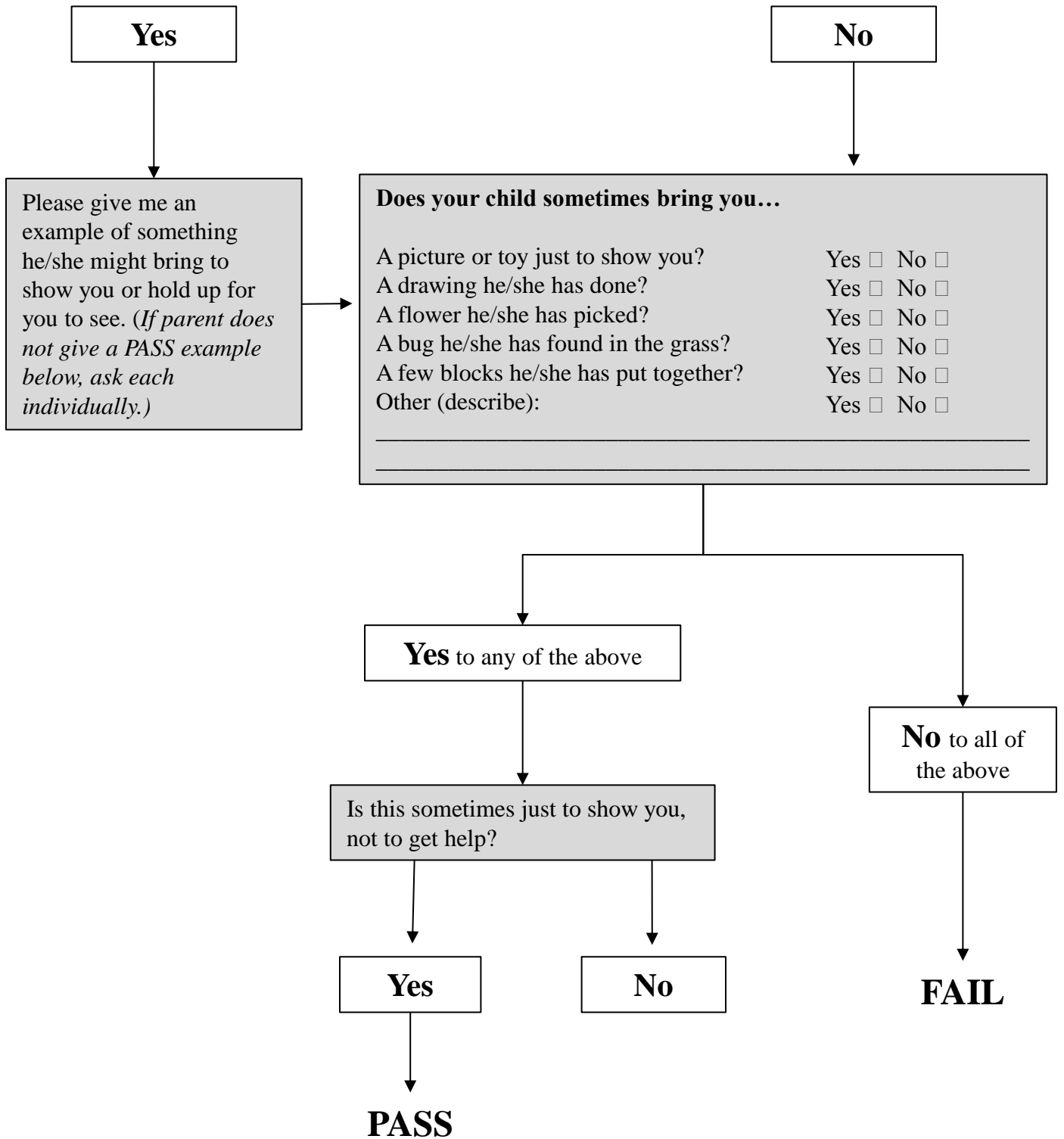
7. \* If the interviewer just asked #6, begin here: We just talked about pointing to *ask* for something, ASK ALL → Does your child point with one finger just to show you something interesting?



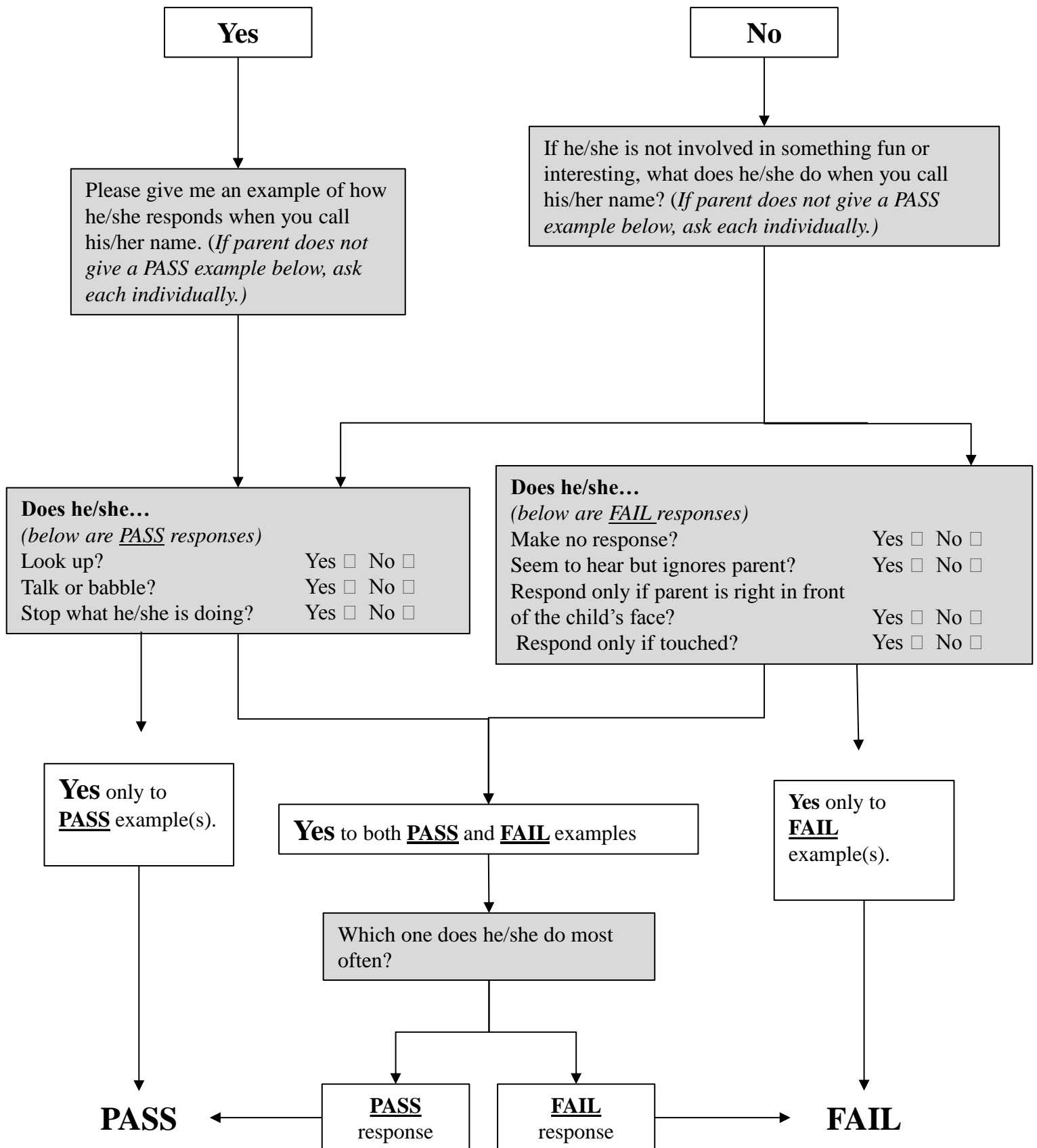
8. Is \_\_\_\_\_ interested in other children?



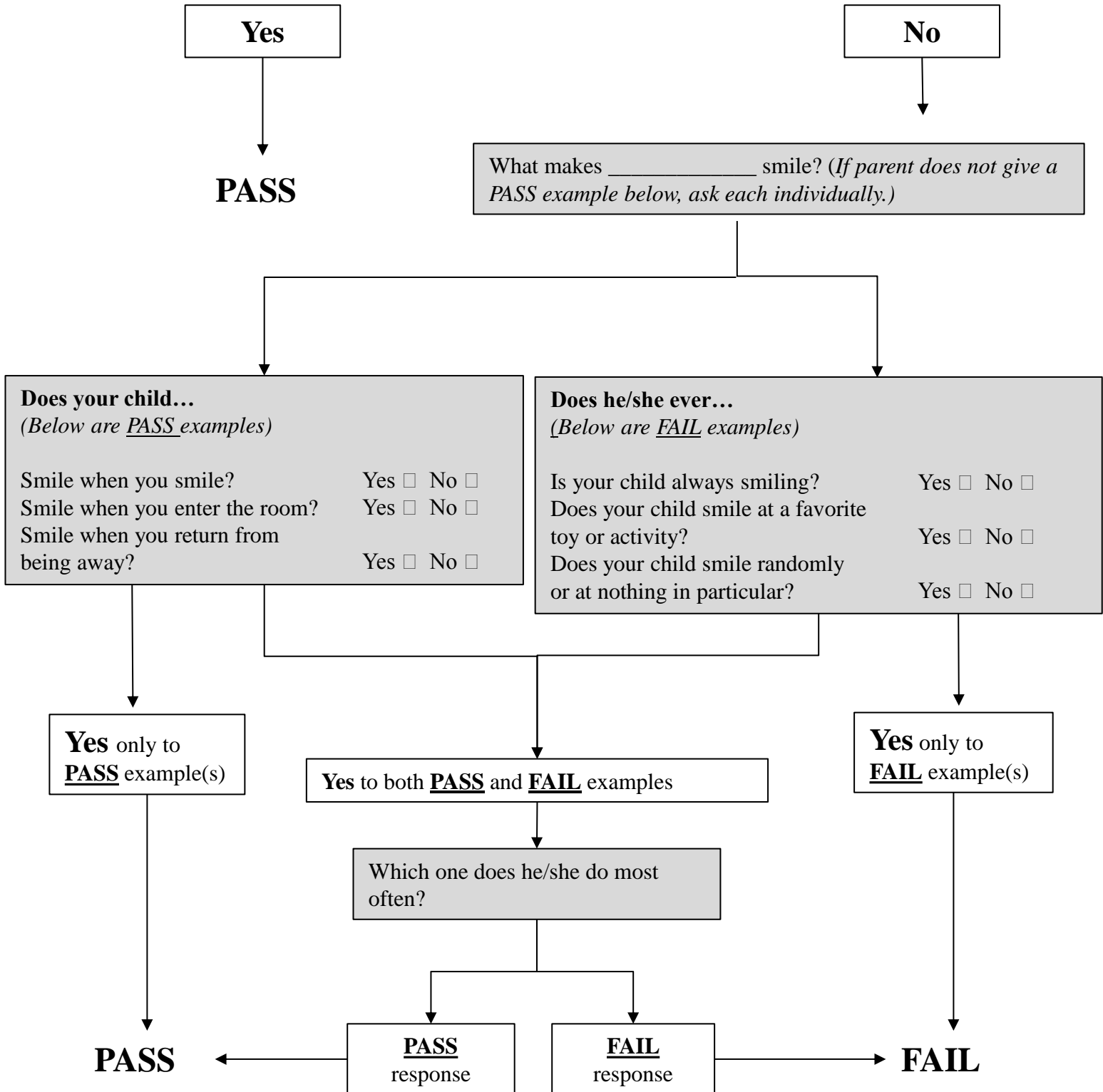
9. Does \_\_\_\_\_ show you things by bringing them to you or holding them up for you to see? Not just to get help, but to share?



10. Does \_\_\_\_\_ respond when you call his/her name?



11. When you smile at \_\_\_\_\_, does he/she smile back at you?





12. Does \_\_\_\_\_ get upset by everyday noises?

Yes

No

**PASS**

**Does your child have a negative reaction to the sound of...**

- A washing machine? Yes  No
- Babies crying? Yes  No
- Vacuum cleaner? Yes  No
- Hairdryer? Yes  No
- Traffic? Yes  No
- Babies squealing or screeching? Yes  No
- Loud music? Yes  No
- Telephone/ doorbell ringing? Yes  No
- Noisy places such as a supermarket or restaurant?
- Other (describe): Yes  No

**Yes** to two or more

How does your child react those noises? (If parent does not give a *PASS* example below, ask each individually.)

**Does your child...**  
(Below are *PASS* responses)

- Calmly cover his/her ears? Yes  No
- Tell you that he/she does not like the noise? Yes  No

**Does your child...**  
(Below are *FAIL* responses)

- Scream? Yes  No
- Cry? Yes  No
- Cover his/her ears while upset? Yes  No

**Yes** only to **PASS** example(s)

**Yes** to both **PASS** and **FAIL**

**Yes** only to **FAIL** example(s)

Which one does he/she do most often?

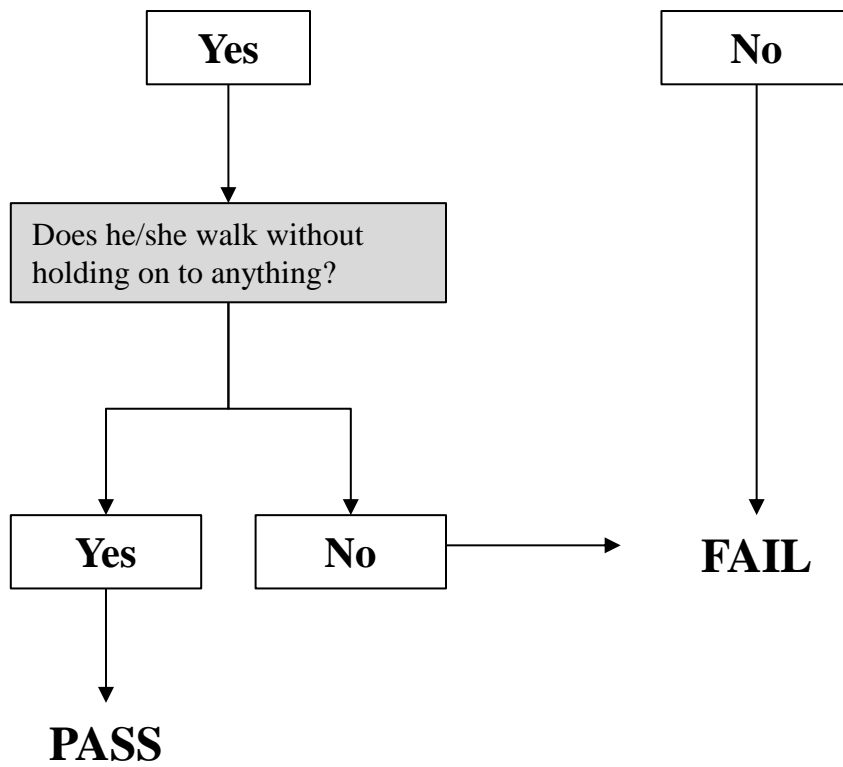
**PASS** response

**FAIL** response

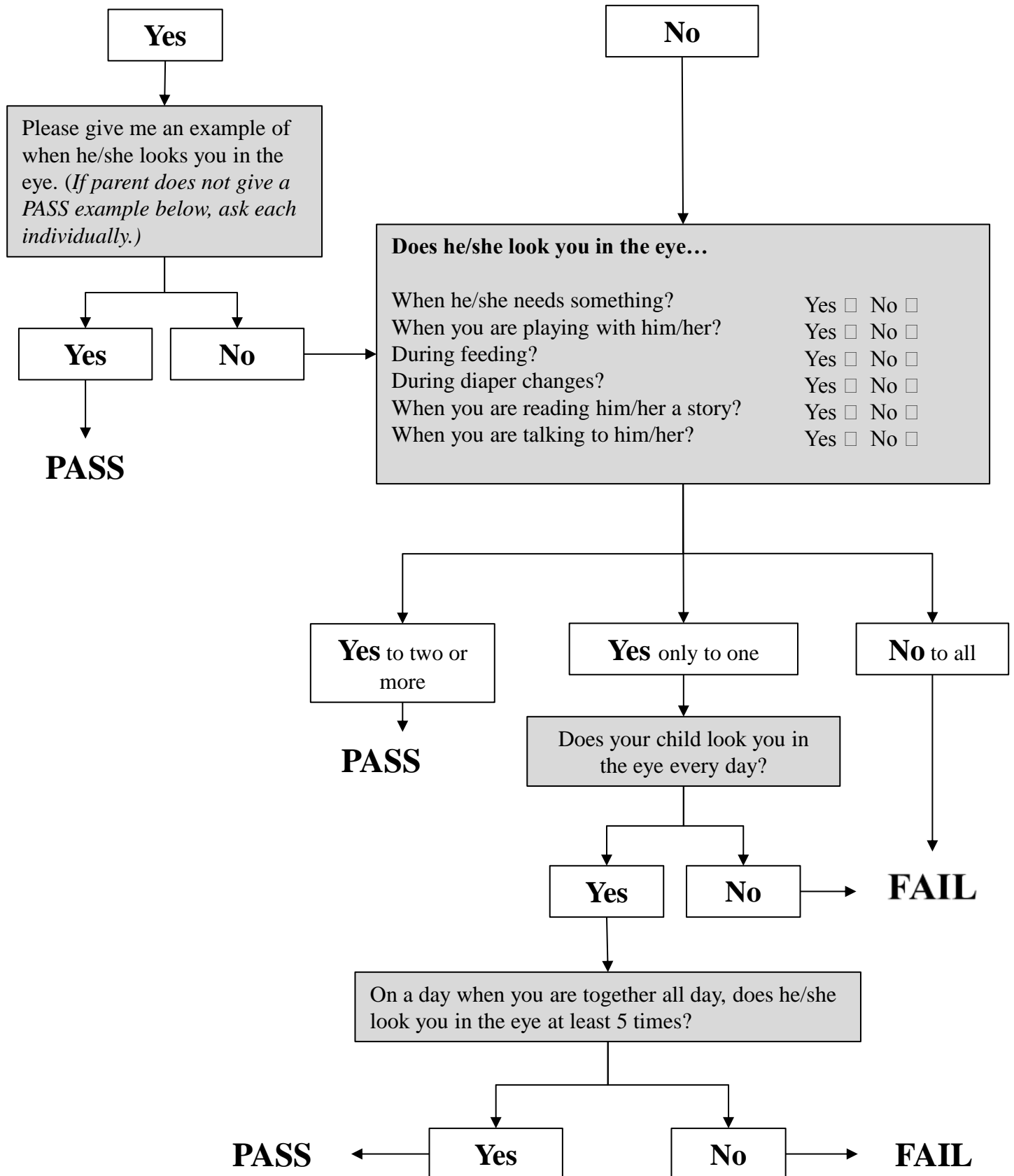
**PASS**

**FAIL**

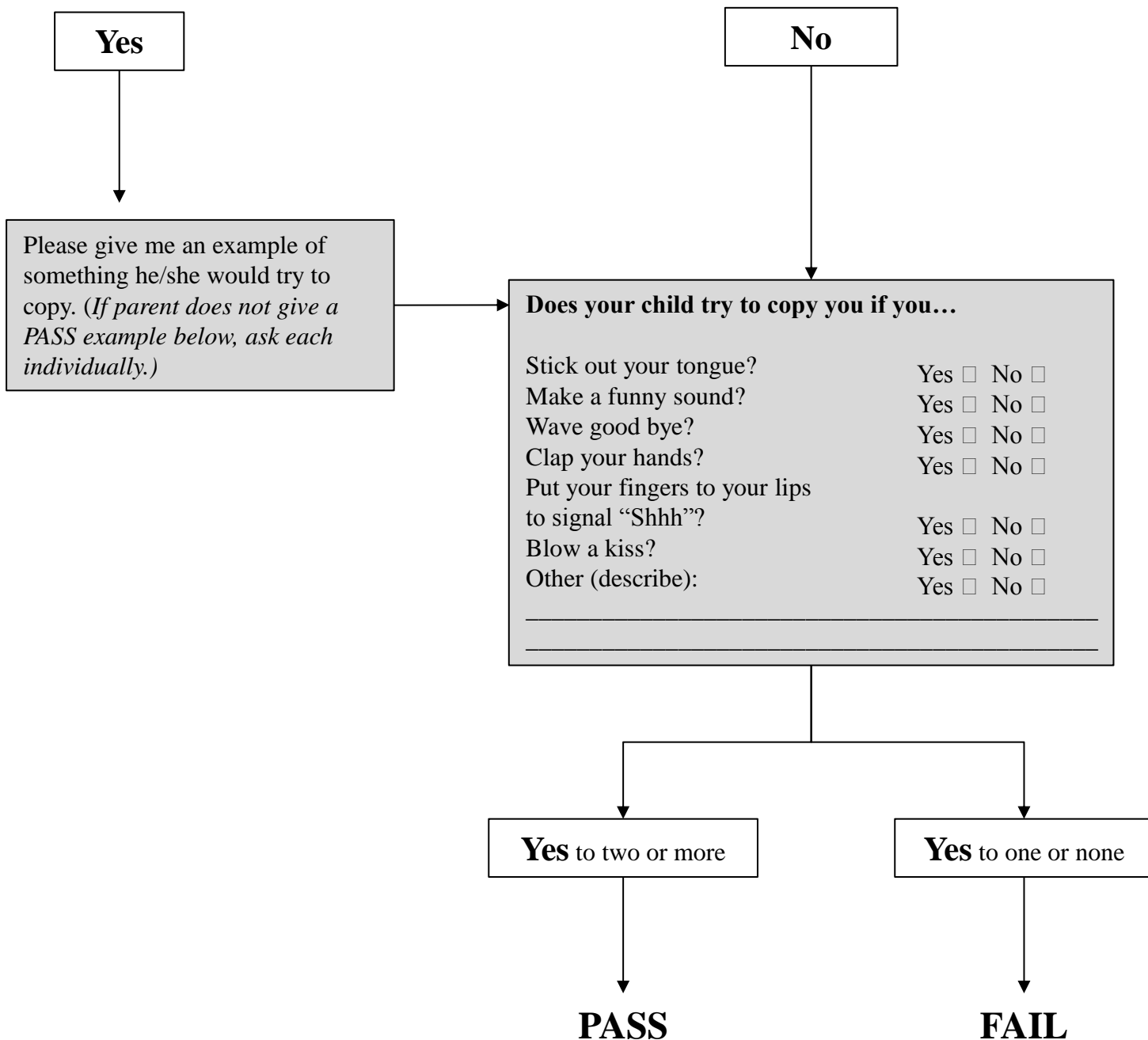
13. Does \_\_\_\_\_ walk?



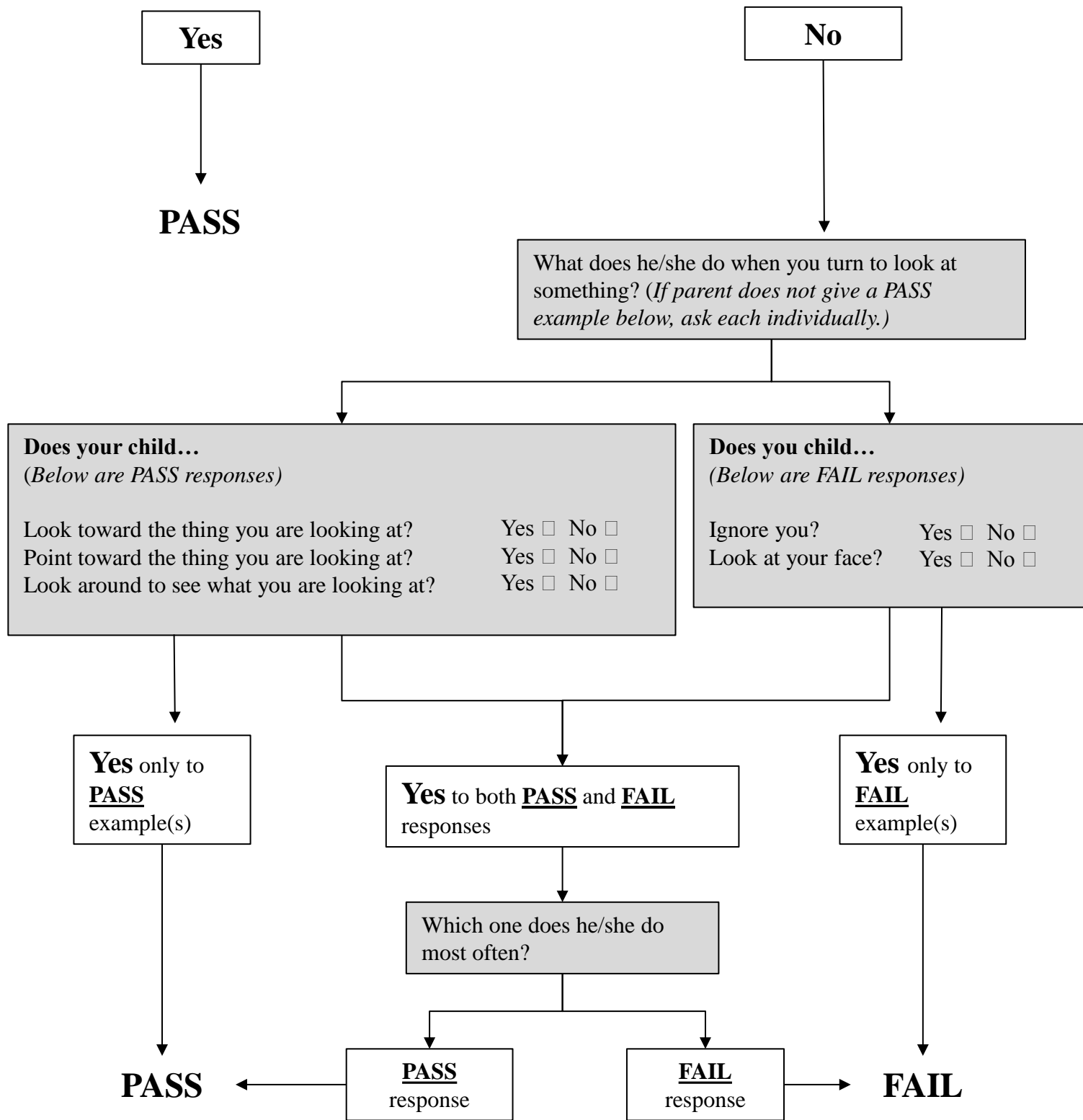
14. Does \_\_\_\_\_ look you in the eye when you are talking to him/her, playing with him/her, or changing him/her?



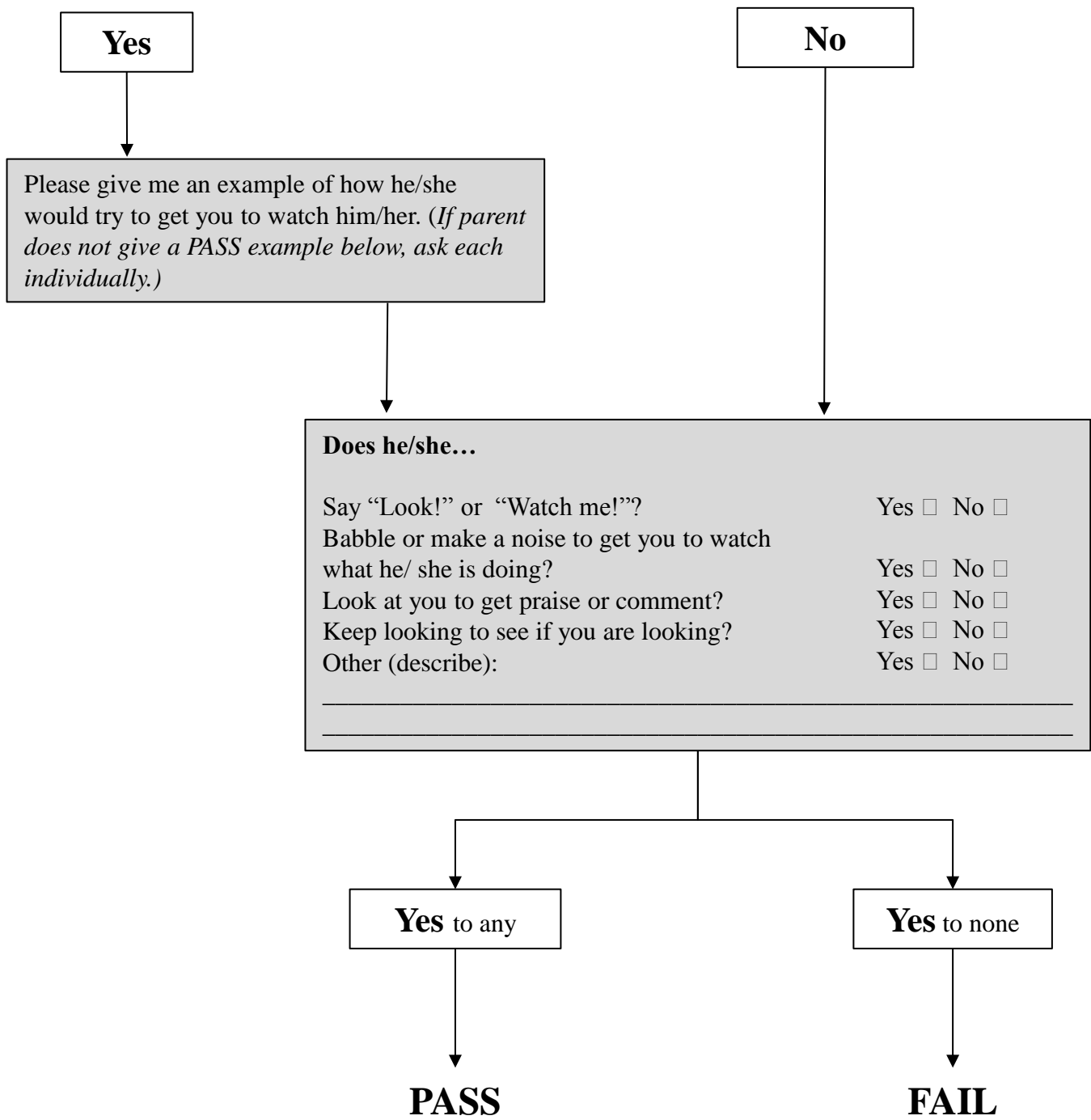
15. Does \_\_\_\_\_ try to copy what you do?



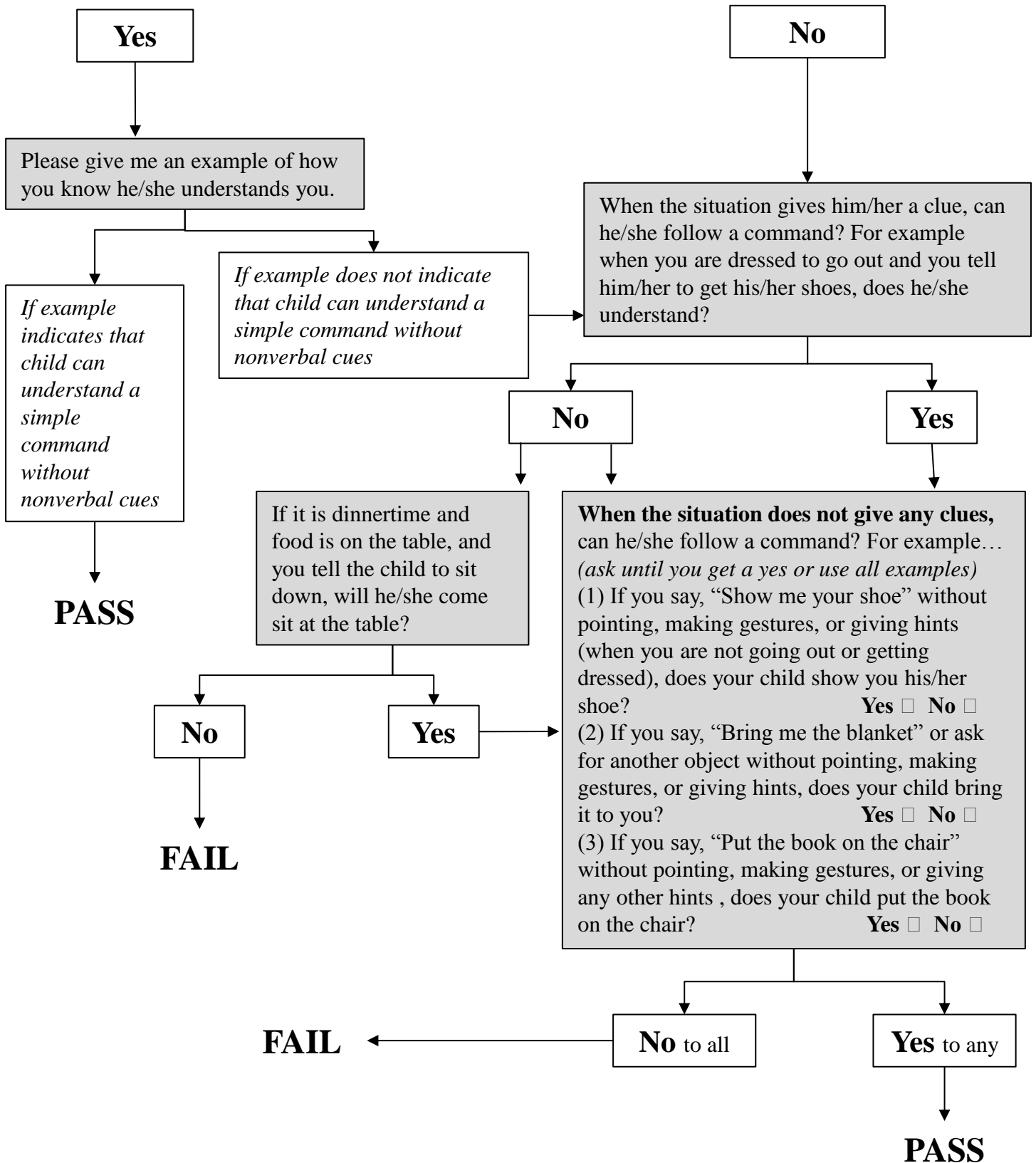
16. If you turn your head to look at something, does \_\_\_\_\_ look around to see what you are looking at?



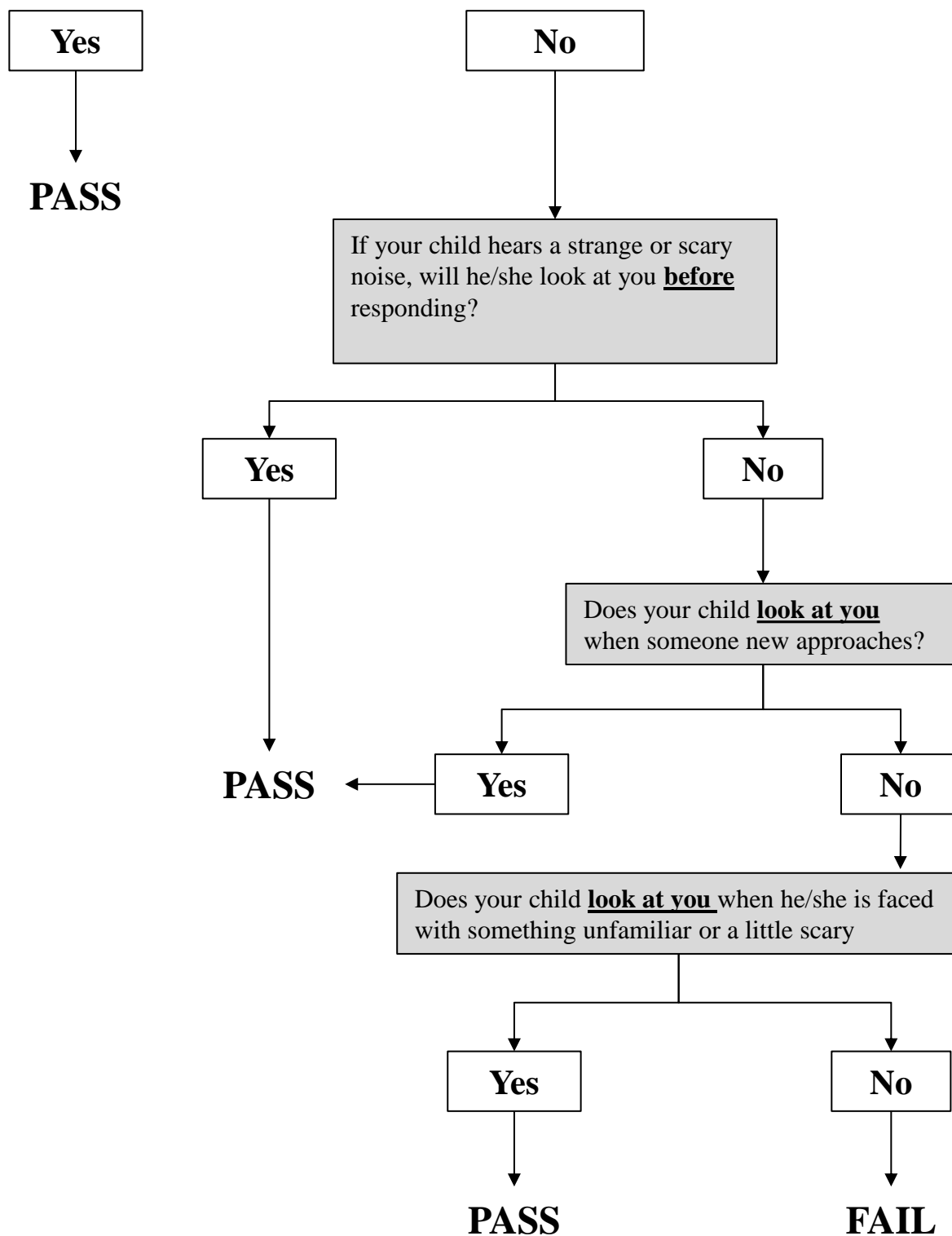
17. Does \_\_\_\_\_ try to get you to watch him/her?



18. Does \_\_\_\_\_ understand when you tell him/her to do something?



19. If something new happens, does \_\_\_\_\_ look at your face to see how you feel about it?





20. Does \_\_\_\_\_ like movement activities?

