

React curriculum for transition students

1. What is React? What is JSX?

[React](#) [JSX](#)

2. What is a state? Props? Difference? React's single strict rule?

<https://kentcdodds.com/blog/props-vs-state>

3. What is a React component (class/function)? What is a React Element?

<https://www.twilio.com/blog/react-choose-functional-components>

<https://reactjs.org/docs/rendering-elements.html>

4. Component lifecycle (mounting, updating, unmounting)? What leads to component re-render?

<https://reactjs.org/docs/react-component.html#the-component-lifecycle>

<https://www.geeksforgeeks.org/re-rendering-components-in-reactjs/>

5. React setState(updaterFunc, callback)? What is its nature (synchronous/asynchronous)? Can we call setState() from render?

<https://medium.com/@baphemot/understanding-reactjs-setstate-a4640451865b>

6. React keys? When can we use indexes as keys and when not?

<https://reactjs.org/docs/lists-and-keys.html>

7. Controlled and uncontrolled components?

<https://stackoverflow.com/questions/42522515/what-are-react-controlled-components-and-uncontrolled-components>

<https://reactjs.org/docs/forms.html#controlled-components>

<https://reactjs.org/docs/uncontrolled-components.html>

8. What is HOC?

<https://reactjs.org/docs/higher-order-components.html>

<https://www.smashingmagazine.com/2020/06/higher-order-components-react/>

9. What are React children?

<https://learn.co/lessons/react-this-props-children>

10. React composition VS props drilling?

<https://javascript.plainenglish.io/composition-in-react-f02afe24bc46>

11. React code splitting? Lazy loading?

<https://javascript.plainenglish.io/code-splitting-in-react-all-you-need-to-know-392b0dfb1fa>

<https://reactjs.org/docs/code-splitting.html>

12. Hooks? The two rules of hooks? Custom hook?

<https://reactjs.org/docs/hooks-overview.html>

<https://reactjs.org/docs/hooks-rules.html>

<https://reactjs.org/docs/hooks-custom.html>

<https://medium.com/@souravsaha101/react-hooks-complete-interview-guide-44dbfe3841b4>

13. useState? useEffect? useReducer? useCallback? useMemo? useContext?
useLayoutEffect? useRef?

<https://www.smashingmagazine.com/2020/04/react-hooks-api-guide/>

<https://dmitripavlutin.com/dont-overuse-react-usecallback/>

<https://kentcdodds.com/blog/useeffect-vs-uselayouteffect>

<https://dmitripavlutin.com/use-react-memo-wisely/>

* I recommend you to start learning from the links provided above. But you can use any materials which you prefer. There are plenty of them on the internet.