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# **Organism Growth and Cell Differentiation**

**B.5 Science concepts.** The student knows how an organism grows and the importance of cell differentiation.

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| IQ Analysis | Investigating the Question | B.5(A) | | | | | RC 1 |
| Units |  | | | | |  |
| **B.5(A)** describe the stages of the cell cycle, including deoxyribonucleic acid (DNA) replication and mitosis, and the importance of the cell cycle to the growth of organisms | | Analysis of Assessed Standards | | | | |
| 2018 – Q19 | | Cluster | | Organism Growth and Cell Differentiation | | |
| Subcluster | | Cell Cycle | | |
| Content | | Readiness | | |
| Process | |  | | |
| Stimulus | |  | | |
|  | | | | |
| Data Analysis | | | | |
| Item | State | Local | Error Analysis  ▢ Guessing  ▢ Careless Error  ▢ Stopped Too Early  ▢ Mixed Up Concepts | |
| A |  |  |
| B |  |  |
| C |  |  |
| D |  |  |
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| Learning from Mistakes Instructional Implications | | | | |
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| **B.5(A)** describe the stages of the cell cycle, including deoxyribonucleic acid (DNA) replication and mitosis, and the importance of the cell cycle to the growth of organisms | Analysis of Assessed Standards | | | |
| 2018 – Q46 | Cluster | | Organism Growth and Cell Differentiation | |
| Subcluster | | Cell Cycle | |
| Content | | Readiness | |
| Process | | B.2(G) | |
| Stimulus | |  | |
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| Data Analysis | | | |
| Item | State | Local | Error Analysis  ▢ Guessing |
|  |  |  |
|  | F |  |  | ▢ Careless Error  ▢ Stopped Too Early  ▢ Mixed Up Concepts |
| G |  |  |
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| Learning from Mistakes Instructional Implications | | | |
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| **B.5(A)** describe the stages of the cell cycle, including deoxyribonucleic acid (DNA) replication and mitosis, and the importance of the cell cycle to the growth of organisms | Analysis of Assessed Standards | | | |
| 2017 – Q7 | Cluster | | Organism Growth and Cell Differentiation | |
| Subcluster | | Cell Cycle | |
| Content | | Readiness | |
| Process | | B.2(G) | |
| Stimulus | |  | |
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| Data Analysis | | | |
| Item | State | Local | Error Analysis  ▢ Guessing |
|  |  |  |
|  | A |  |  | ▢ Careless Error  ▢ Stopped Too Early  ▢ Mixed Up Concepts |
| B |  |  |
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| Learning from Mistakes Instructional Implications | | | |
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| **B.5(A)** describe the stages of the cell cycle, including deoxyribonucleic acid (DNA) replication and mitosis, and the importance of the cell cycle to the growth of organisms | Analysis of Assessed Standards | | | |
| 2017 – Q33 | Cluster | | Organism Growth and Cell Differentiation | |
| Subcluster | | Cell Cycle | |
| Content | | Readiness | |
| Process | |  | |
| Stimulus | |  | |
|  | | | |
| Data Analysis | | | |
| Item | State | Local | Error Analysis  ▢ Guessing  ▢ Careless Error  ▢ Stopped Too Early  ▢ Mixed Up Concepts |
| A |  |  |
| B |  |  |
| C |  |  |
| D |  |  |
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| Learning from Mistakes Instructional Implications | | | |
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