

Big Sky HS IESPS Unit 1 Learning Targets

1. I can write a testable question and generate a valid hypothesis (prediction) and differentiate between the two.

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2. I can formulate a sequential plan for an investigation.

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3. I can gather qualitative and quantitative data using appropriate measurements, units, and methods.

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4. I can apply appropriate mathematical analysis.

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5. I can demonstrate graphing design (placement of dependent and independent variables/scaling/units/keys/titles/labels/graph types).

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6. I can, using graphical analysis, identify and interpret trends in data.

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7. I can justify and defend conclusions based on evidence.

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8. I can model the five Earth spheres with a concept map, using arrows and linking words.

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9. I can use a detailed model to describe a specific example of an interaction of Earth spheres that occurs in the Bitterroot riparian zone.

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10. I can use depth measurements to calculate x-sectional area.

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11. I can use instruments or floating objects to determine stream velocity.

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12. I can use area and velocity to calculate streamflow.

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13. I can write a question and procedure for an investigation into the affect of a part of one Earth sphere on a part of another Earth sphere.

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14. I can collect, analyze, and explain my data on a specific interaction between two Earth spheres.

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