Kindergarten Science | Practice

Lesson 1: Observe the Weather | Questions 1-3

With an adult, look through a window or stand in a safe sheltered place. Notice clouds, rain and moving leaves. Do not go outside in a storm. Record what you actually see today, or say you have not observed yet.

1. What does weather describe?

2. Is 'I see clouds' an observation or a prediction?

3. Is 'It might rain later' an observation or a prediction?

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Lesson 1: Observe the Weather | Questions 4-6

With an adult, look through a window or stand in a safe sheltered place. Notice clouds, rain and moving leaves. Do not go outside in a storm. Record what you actually see today, or say you have not observed yet.

4. Can weather change?

5. Tell or draw what you actually see today, or say you have not observed.

6. Should we go outside to observe during a storm?

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Lesson 2: Sunlight and Shade | Questions 1-3

Adult: Put two similar sheets of paper in a safe sunny window, one in direct sunlight and one shaded by a book, for a short time. Observe the light on each. Do not look directly at the Sun or touch hot surfaces. If the weather does not allow this, discuss the untested plan.

1. What can sunlight do to a surface?

2. What makes shade?

3. Is 'the sunny tile may get warmer' an observation or prediction?

Adult: Put two similar sheets of paper in a safe sunny window, one in direct sunlight and one shaded by a book, for a short time. Observe the light on each. Do not look directly at the Sun or touch hot surfaces. If the weather does not allow this, discuss the untested plan.

4. Which paper gets direct sunlight in the plan?

5. Tell what you actually noticed, or say the plan is untested.

6. Is it safe to look directly at the Sun?

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Lesson 3: Make a Shade Device | Questions 1-3

With an adult, use paper or cardboard and large blocks to make a small roof for a paper toy near a sunny window. Check whether a shadow covers the toy. Change the position and test again. Never stare at the Sun; use child-safe materials.

1. What is the problem in the model?

2. Name one material used for the roof.

3. What should you look for during a test?

With an adult, use paper or cardboard and large blocks to make a small roof for a paper toy near a sunny window. Check whether a shadow covers the toy. Change the position and test again. Never stare at the Sun; use child-safe materials.

4. What can you change if the toy is not shaded?

5. Tell your actual test result, or say you only made a plan.

6. Why test a design?

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Lesson 4: Notice a Weather Pattern | Questions 1-3

With an adult, observe safely at about the same time on three days. Draw a sun for sunny, a cloud for cloudy or a raindrop for rainy. More than one description may fit. Leave a day blank until you observe it.

1. How many days are in the imaginary example?

2. How many imaginary days were cloudy?

3. How many imaginary days were sunny?

With an adult, observe safely at about the same time on three days. Draw a sun for sunny, a cloud for cloudy or a raindrop for rainy. More than one description may fit. Leave a day blank until you observe it.

4. Does the example prove the next day will be sunny?

5. Record your actual first day's weather or leave it blank.

6. Why leave unobserved days blank?

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Lesson 5: Use a Forecast to Make a Plan | Questions 1-3

With an adult, find a local forecast from a trusted weather source. Say one thing it predicts and choose a sensible plan. Do not enter private information online. If there is severe weather, follow current local official guidance and remain sheltered.

1. Is a forecast an observation of the future or a prediction?

2. Can a forecast change?

3. What could you choose if rain is likely?

With an adult, find a local forecast from a trusted weather source. Say one thing it predicts and choose a sensible plan. Do not enter private information online. If there is severe weather, follow current local official guidance and remain sheltered.

4. Who can help you find a trusted forecast?

5. Tell one actual forecast you checked, or say you have not checked.

6. What should families follow during severe weather?

Kindergarten Science | Independent Check

Questions 1-3

Directions: Teacher: Read the questions aloud. Children may answer by speaking, pointing, drawing or writing. Do not ask the child to invent observations.

1. What is weather?

2. I see clouds. Is that an observation or a prediction?

3. It may rain later. Is that an observation or a prediction?

Kindergarten Science | Independent Check

Questions 4-6

Directions: Teacher: Read the questions aloud. Children may answer by speaking, pointing, drawing or writing. Do not ask the child to invent observations.

4. What can sunlight do to a surface?

5. What makes shade?

6. What can you test on a paper roof?

Kindergarten Science | Independent Check

Questions 7-8

Directions: Teacher: Read the questions aloud. Children may answer by speaking, pointing, drawing or writing. Do not ask the child to invent observations.

7. Should you look directly at the Sun?

8. Can a forecast change?